

Aslib Book-List

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OF RECOMMENDED SCIENTIFIC
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WITH ANNOTATIONS

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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ASLIB BOOK-LIST

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01. BIBLIOGRAPHY

BARROW, J. G.

A bibliography of bibliographies in religion. Austin, Texas, J. G. Barrow, 1955. pp. xi, 489. \$15. Available from J. G. Barrow, 716 Brown Bldg., Austin, Texas.

A classified arrangement, with author and titles index. Items are annotated, and locations given including some for European and British libraries. (D) 1

COUNCIL ON FOREIGN RELATIONS

Foreign affairs bibliography: a selected and annotated list of books on international relations, 1942-1952, [by] H. L. Roberts, assisted by J. Gunther and J. A. Kreslins. New York, Harper; [London, Royal Institute of International Affairs], 1955. pp. xxiii, 727.. \$10 or 75s.

Based on bibliographical notes appearing in *Foreign Affairs*. Confined to books.

Classified arrangement, mainly geographical, with some subject breakdowns.

Over 9,000 items, in 38 languages, briefly annotated. (D) 2

SPECIAL LIBRARIES ASSOCIATION. Science-Technology Division. *Engineering Section*.

Bibliography of engineering abstracting services; ed. by M. M. Landuyt. New York, the Association, 1955. pp. 37, mimeographed. \$1.50.

International in scope. Arranged alphabetically under broad subject headings with index of titles and issuing bodies. Gives addresses and prices. (D) 3

02. LIBRARIANSHIP

COLLISON, R. L.

The treatment of special material in libraries. 2nd ed. Aslib, 1955. pp. ix, 104, illus., tables, diagrs. 12s. 6d. (10s. 6d. to members). 'Previously issued as *The cataloguing arrangement and filing of special material in special libraries*, 1950.'

Broad discussion of the handling and recording of all the types of material which supplement books and periodicals in libraries. This ed. is much expanded and includes much of author's experience in the United States. (B) 4

LEE, R. J.

English county maps: the identification, cataloguing and physical care of a collection. Library Association, 1955. pp. 32. 3s. (2s. to members). *Library Association pamphlet no. 13*.

Concerned mainly with maps of historical interest. Fairly full treatment of bibliographical identification, with instructions for full cataloguing. Useful bibliography of bibliographies. (B) 5

LIBRARY ASSOCIATION. Reference and Special Libraries Section

Reference and special libraries: some current problems; proceedings of the annual conference, Stockport, April, 1955. The Section, 1955. pp. 35. 3s. (2s. 6d. to members). (B) 6

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3. SOCIAL SCIENCES

POLITICAL AND ECONOMIC PLANNING

World population and resources: a report. Political and Economic Planning, 1955. pp. xxxvii, 339, maps, tables, diagrs. 30s.

Study of population growth, and of the raw materials, food and fuel to support it. (C) 7

34. LAW

DOLD, G. W. F., and JOUBERT, C. P.

The Union of South Africa: the development of its laws and constitution. Stevens, 1955. pp. xx, 478, tables, bibliog. 55s. *British Commonwealth: the development of its laws and constitutions series*, ed. by G. W. Keeton, vol. 5.

Includes important chapters on the government of the natives and the Asiatics. (C) 8

GOODRICH, L. M., and SIMONS, A. P.

The United Nations and the maintenance of international peace and security. Washington, Brookings Institution, 1955. pp. 709. \$6.

Describes methods and processes for maintaining peace and security through the United Nations and evaluates them in the light of the conditions in which the United Nations has had to function. (B) 9

MAYSON, C. F.

Law and the engineer: the law of contract and negligence as affecting engineers: with foreword by Rt. Hon. Sir Alfred Denning. C. & H., 1955. pp. xx, 470, tables, bibliog. 63s.

Based on English civil law, with Scots law mentioned in passing. Criminal law not included. Glossary of legal terms, and a list of statutes, showing which apply to Scotland. (A/C) 10

SCHWARTZ, B.

American constitutional law; with a foreword by A. L. Goodhart. Cambridge, C.U.P., 1955. pp. xiv, 364. 25s. (B) 11

36. SOCIAL WELFARE

368 Insurance.

HAYCOCKS, H. W., and PERKS, W.

Mortality and other investigations; vol. 1. Cambridge, C.U.P., for the Institute of Actuaries and the Faculty of Actuaries, 1955. pp. ix, 163, tables. 20s.

Designed to meet the needs of students preparing for actuarial examinations. (B) 12

ROSE, C. L.

Insurance notes for shipbrokers. Witherby, 1955. pp. 8, 101, tables. 8s. 6d.

Useful to anyone requiring a working knowledge of marine insurance. (B) 13

37. EDUCATION

AMERICAN SOCIETY FOR ENGINEERING EDUCATION. Engineering College Research Council

Review of current research and directory of member institutions. New York, the Society, 1955. pp. xii, 352. \$2.

Gives details of research policies, personnel, expenditure, income, short courses and active and scheduled projects for 105 U.S. Engineering Colleges and Departments. (D) 14

NEWMAN, H., and SIDNEY, D. M.

Teaching management: a practical handbook with special reference to the case study method. Routledge and K. Paul, 1955. pp. xxii, 274, illus. 15s.

Both authors have practical experience of industrial training, and this book will be useful both to technical college lecturers and to industrial training officers. (B) 15

38. TRADE, TRANSPORT, COMMUNICATIONS

BONSOR, N. R. P.

North Atlantic seaway: an illustration history of the passenger services linking the old world with the new; with a foreword by A. C. Hardy. Prescott, (Lancs.), T. Stephenson, 1955. pp. xxxii, 639, illus., tables. 57s. 6d.

Primarily a reference book, with notes on the various companies, names of the vessels they operated and many illustrations of historical ships. A good index, but it is unfortunate that the addenda could not have been inserted in the main text. (A/D) 16

5. NATURAL SCIENCES

TAYLOR, S. F.

An illustrated history of science; with illustrations by A. R. Thomson. Heinemann, 1955. pp. xii, 179, illus., diagrs. 25s.

Royal Institution Christmas Lectures given by the author in 1953 are presented in book form with many of his demonstration experiments. (A) 17

51. MATHEMATICS

BRAND, L.

Advanced calculus: an introduction to classical analysis. New York, Wiley; London, C. & H., 1955. pp. xiv, 574, diagrs. 68s.

Systematic treatment of classical analysis dealing essentially with functions of a real variable. Contains a wide range of applications and problems. (C) 18

KOPAL, Z.

Numerical analysis: with emphasis on the application of numerical techniques to problems of infinitesimal calculus in single variable. C. & H., 1955. pp. xiv, 556, tables.

Reader will require a very sound grasp of algebra and elementary calculus at about undergraduate level; explanations are full and there are well-chosen worked examples of methods given. (B) 19

52. ASTRONOMY

BEER, A., ed.

Vistas in astronomy: Vol. 1, Co-operation and organization, history and philosophy, dynamics, theoretical astrophysics, instruments, radio astronomy, solar physics. New York, London, Pergamon Press, 1955. pp. xvi, 776, illus., tables, diagrs., bibliogs. 189s. *Special supplement no. 3, to the 'Journal of Atmospheric and Terrestrial Physics'.*

Papers by specialists on all branches of astronomy; to be published in two volumes. (B) 20

53. PHYSICS

HALLIDAY, D.

Introductory nuclear physics. 2nd ed. New York, Wiley; London, C. & H., 1955. pp. ix, 493, illus., tables, diagrs., bibliog. 60s. or \$7.50.

Previous ed. 1950. A chapter on the elements of wave mechanics has been added and other chapters brought up to date. (B) 21

JACKSON, L. C.

Low temperature physics. 4th ed. rev. and reset. Methuen, 1955. pp. viii, 158, tables, diagrs., bibliog. 10s. 6d. *Methuen's monographs on physical subjects, ed. by B. L. Worsnop.*

Deals with production and measurement of low temperatures, and thermal, electrical conducting and magnetic behaviours of gases and metals at low temperatures. (C) 22

SHARPE, J.

Nuclear radiation detectors. Methuen, 1955. pp. 184. 11s. 6d. *Methuen's monographs on physical subjects, ed. by B. L. Worsnop.*

Discusses theory and design of ionisation chambers, counters and other detectors. (B) 23

STEVIN, S.

The principal works of Simon Stevin, ed. by E. Crone, E. J. Dijksterhuis, R. J. Forbes, M. G. J. Minnaert and A. Pannekoek; vol. 1, General introduction, Mechanics; ed. by E. J. Dijksterhuis, Amsterdam, C. V. Swets & Zeitlinger, 1955. pp. 617, illus. 105s.

Facsimile of original Dutch texts with English translation facing. Other matter in English. Stevin was an important forerunner of Galileo in mechanics. (C) 24

SYNGE, J. L.

Relativity: the special theory. Amsterdam, North-Holland Publishing Co., 1955. pp. xii, 450, illus. Fl. 38 or 76s.

Based on graduate lectures given by the author; contains developments that have not previously appeared in book form. (B) 25

TOLANSKY, S.

An introduction to interferometry. L. G., 1955. pp. viii, 223, illus., diagrs., bibliog. 21s.

Concise text-book, intended primarily for students of physics. (B) 26

54. CHEMISTRY

CRANSTON, J. A.

Rational approach to chemical principles. 2nd ed. London, Glasgow, Blackie, 1955. pp. xii, 231, illus. 10s. 6d.

New edition has been revised with reference to pH and its measurement. (B) 27

EMMETT, P. H., ed.

Catalysis: Vol. 3, Hydrogenation and dehydrogenation. New York, Reinhold; London, C. & H., 1955. pp. vii, 504, illus., bibliogs. 100s. or \$12.50.

Several chapters on the hydrogenation of unsaturated carbon carbon bonds, and a very full discussion of ammonia synthesis and of methanol synthesis: well up to standard set by two previous volumes in this series. (C) 28

CHARLOT, G., and others

Rapid detection of cations; by G. Charlot, D. Bézier and R. Gauguin; trans. by R. E. Oesper. Thames & Hudson, 1955. pp. 92. 9s. 6d.

A reference book of use to analytical chemists handling inorganic materials, giving concise descriptions of tests. (C) 29

UNITED STATES. Atomic Energy Commission

Production of heavy water; ed. by G. M. Murphy, H. C. Urey and I. Kirshenbaum. New York, London, McG.-H., 1955. pp. 394, illus., tables, diagrs. 39s. 6d. or \$5.25. *National nuclear energy series, division 3, vol. 4F.*

An account of the processes used for the commercial and laboratory separation of heavy water in the U.S.A. during the last ten years. (C) 30

57. BIOLOGY

COMAR, C. L.

Radioisotopes in biology and agriculture: principles and practice. New York, London, McG.-H., 1955. pp. 494, illus., glossary. \$9 or 67s. 6d.

Covers principles of radioactive tracer method and laboratory use in biological and agricultural science. (B) 31

59. ZOOLOGY.

CANADA. Department of Agriculture. Entomology Division

Collecting, preparing and preserving insects; by B. P. Beirne and others. pp. 133, illus. 50c.

For the use of amateur or professional entomologists. Although most of the principles discussed are of general application, it was prepared with Canadian conditions particularly in mind. (B) 32

CARPENTER, S. J., and LACASSE, W. J.

Mosquitoes of N. America (north of Mexico). Berkeley and Los Angeles, University of California Press; London, C.U.P., 1955. pp. 367, illus. \$10 or 75s.

A definitive work on the taxonomy, biology, geographical distribution and medical importance of mosquitoes in America, designed to meet needs of technicians, entomologists, public health officers, and field workers engaged in mosquito control. 127 full-page plates by Japanese artists—the largest and finest collection published in book form. (C) 33

RAGGE, D. R.

The wing-venation of the orthoptera saltatoria, with notes on dictyopteran wing-venation. British Museum (Natural History), 1955. pp. vi, 159, illus., tables. 40s.

Aims to determine, on the basis of all possible criteria, the homologies of saltatorian wing-veins, and thus to apply to them a uniform and unmodified Comstock-Needham terminology. (C) 34

6. APPLIED SCIENCES

61. MEDICINE

614. Public Health.

AMERICAN PUBLIC HEALTH ASSOCIATION

Standard methods for the examination of water, sewage and industrial wastes; prepared and published jointly by the Association, the American Waterworks Association and the Federation of Sewage and Industrial Wastes Associations. 10th ed. The Association, 1955. pp. 497. \$7.50. (B) 35

62. ENGINEERING

PARKINSON, A. C.

Engineering inspection: an introduction to inspection work including special reference to aero requirements. 3rd ed. Pitman, 1955. pp. viii, 164, illus., tables, diagrs. 10s. (B) 36

621. Mechanical engineering.

TOWN, H. C.

Hydraulic and pneumatic operation of machines: a handbook on the use of oil or compressed air for driving and controlling machines and vehicles: introduction by J. E. Hill. Odhams Press, 1955. pp. 192, illus., tables, diagrs. 21s.

Basic theory of hydraulics is assumed, and the author reviews recent developments and applications to larger machines, particularly machine tools. (C) 37

621.3. Electrical engineering.

GOLDING, E. W.

The generation of electricity by wind power. Spon, 1955. pp. xvii, 318, illus., maps, tables, diagrs., bibliog. 50s. *Electrical engineering series*.

First British book on the subject. Reviews the work done in this and other countries and gives a considerable number of references. (B/G) 38

MENTZER, J. R.

Scattering and diffraction of radio waves. New York, London, Pergamon Press, 1955. pp. viii, 134, table, diagrs., bibliog. 30s. or \$4.50. *Pergamon science series; electronics and waves, vol. 7, ed. by D. W. Fry*.

Largely mathematical study of the subject written as a research monograph with special reference to the work of the last decade. (C) 39

621.4 Internal combustion.

FOX, G. B.

Diesel operation and fault diagnosis: a practical guide to diesel engines and their maintenance; introduction by Sir Harry Ricardo. Odhams Press, 1955. pp. 192, illus., tables, diagrs. 21s.

Author has had many years' experience in charge of testing and development of diesel engines at the Admiralty Engineering Laboratory, and this book contains much valuable advice. (C) 40

JUDGE, A. W.

Modern petrol engines, with special reference to automobile, aircraft and stationary types. 2nd ed. rev. C. & H., 1955. pp. x, 564, illus., plates, diagrs., bibliog. 56s.

Enlarged ed. (previous ed. 1946). Recent developments are treated, and there is a fairly long bibliography. (B/C) 41

621.7. Workshop practice.

AMERICAN WELDING SOCIETY

Brazing manual. New York, Reinhold, 1955. pp. 193, illus. \$4.75.

Useful general introduction to modern methods, covering all operations from design to inspection. Includes chapters dealing with brazing of several common metals. (B) 42

HENRY FORD TRADE SCHOOL, Dearborn, Michigan. *Shop Theory Department.*

Shop theory. 4th ed. rev. by F. Nicholson. New York, London, McG.-H., 1955. pp. 329. 34s.

This book developed out of the instruction sheets prepared in the School. A very practical handbook for the instruction of apprentices and others. (B) 43

621.89. Lubricants.

BREWER, A. F.

Basic lubrication practice. New York, Reinhold; London, C. & H., 1955. pp. xiv, illus., tables, diagrs., bibliog. 54s. or \$6.75.

For the machine designer, explaining how lubrication can be applied and what type of lubricant should be chosen for various duties. (C) 44

624. Civil engineering.

GREAT BRITAIN. Building Research Station

Studies in composite construction. Part 2, The interaction of floors and beams in multi-storey buildings; by R. H. Wood. H.M.S.O., 1955. pp. vii, 122, illus., tables, diagrs., bibliog. 5s. *National building studies research papers, no. 22.*

Study of the combined structural performance of the frame with other components in a building. (C) 45

STEWART, D. S.

Practical design of simple steel structures: a text-book suitable for civil engineers, structural engineers, road and railway engineers and students at universities and technical colleges: vol. 1, Shop practice, riveted connections and beams, etc., with appendix of tables. 4th ed. Constable, 1955. pp. xv, 221, illus., tables, diagrs.

Previous ed. 1947. (B) 46

TWORT, A. C.

The supervision of civil engineering construction, including the preparation of contract documents; with a foreword by H. J. F. Gourlay. E. Arnold, 1955. pp. vii, 234, illus., tables, diagrs., bibliog. 25s.

Should be of great value to the young resident engineer. Book is divided into three parts—site organization, the work progresses, and preparation of contract documents. (B) 47

626/627. Hydraulic engineering.

LELIAVSKY, S.

An introduction to fluvial hydraulics. Constable, 1955. pp. xii, 257, illus., tables, diagrs. 30s.

Survey of the various theories on the flow of water in erodible channels. The author has had considerable experience in irrigation work in Egypt. (C) 48

629.11. Automobile engineering.

MOSS, A. J. K.

Servicing guide to British motor vehicles: Vol. 3, Cars, commercial vehicles, tractors and components. Trader Publishing Co. for "Motor Trader" and "British Automobiles Overseas", 1955. pp. xx, 228, illus. 50s.

Contains 25 data sheets based on information supplied by manufacturers, and includes a useful glossary. May well become a standard reference book for automobile engineers. (B) 49

629.13. Aeronautical engineering.

SHAPIRO, J.

Principles of helicopter engineering. Temple Press, 1955. pp. xiv, 433, illus., tables, diagrs., bibliog. 55s.

Authoritative and up-to-date work. Greater part of the text is devoted to aerodynamic aspects of design, but the practical aspects are also considered. (B/C) 50

63. AGRICULTURE

CHRISTIDES, B. G., and HARRISON, G. J.

Cotton growing problems. New York, London, McG.-H., 1955. pp. vii, 633, illus., tables, diagrs., bibliog. 73s.

Monograph on cotton growing based on world's literature (bibliographies) and some experimental work (in Greece), related particularly to problems in the United States. (B/C) 51

DIRECTORY of wheel and track-type tractors produced throughout the world. 2nd ed. Rome, Food and Agriculture Organization of United Nations, 1955. pp. 371. \$3 or 15s.

In English, French and Spanish, this directory has been completely revised since 1st ed. (1951). It includes the specifications of current models of tractors, together with the names and addresses of the manufacturers, and is the only world directory on this subject. (D) 52

658. Industrial management.

EMERICK, R. H.

Power plant management. New York, London, McG.-H., 1955. pp. xi, 339, illus., tables, diagrs. 49s. 6d. or \$6.50.

Divided into three parts dealing respectively with design, administration and operation of power plant. (C) 53

WELLENS, J.

Education and training in industry. Manchester, Columbine Press, 1955. pp. x, 142. 17s. 6d.

A general survey of the field, including apprentice training, supervisory training, management training, training of operatives and of foreign students. (B) 54

66. CHEMICAL TECHNOLOGY

COCKETT, S. R., and HILTON, K. A.

Basic chemistry of textile colouring and finishing. National Trade Press, 1955. pp. vii, 191, illus. 21s.

Companion volume to "Basic chemistry of textile preparation". Neither is an outstanding work, but each provides a useful elementary survey for students. (B) 55

COULSON, J. M., and RICHARDSON, J. F.

Chemical engineering; Vol. 2, Unit operations. Pergamon Press, 1955. pp. xvii, 387-975, illus., tables, diagrs., bibliog. 60s.

Maintains the high standard of the first volume, both in contents and format. Deals only with physical aspects, and is intended primarily for students, but is likely to have a wider appeal and to become a standard textbook. (B) 56

STRACHAN, J. F.

The petroleum refinery engineer's handbook. 2nd ed. Spon, 1955. pp. xv, 168, illus., tables, diagrs. 50s.

A manual for inspectors of petroleum equipment, setting out the organization of the inspection department, the procedure to be adopted and with a chapter on corrosion and protection of oil equipment. Calculations and general safety precautions are included. (B) 57

67. MANUFACTURES

677. Textiles.

GEE, N. C.

Textile calculations. British-Continental Trade Press, 1955. pp. [4], 255, illus., tables, diagrs. 21s.

Book reproduction of articles that have appeared in the *Textile Manufacturer*. (B) 58

WOODS, H. J.

Physics of fibres. Institute of Physics, 1955. pp. 100, illus., tables, bibliog. 30s. *Physics in industry series*.

An outline of the place of physics in the present and future study of fibre properties. 185 references to the literature are reviewed. (B) 59

69. BUILDING

KNIGHT, B. H., and KNIGHT, R. G.

Builders' materials. 3rd ed. E. Arnold, 1955. pp. viii, 304, illus., tables, diagrs. 30s.

Largely re-written ed., with chapters added to include building techniques developed since the war. (B) 60

77. PHOTOGRAPHY

GERNSHEIM, H.

The history of photography from the earliest use of the camera obscura in the eleventh century up to 1914; by H. Gernsheim, in collaboration with A. Gernsheim. O.U.P., 1955. pp. xxviii, 395, illus., tables, diagrs., bibliog. 70s.

An accurate and well-documented history, but does not cover colour, cinematography, or the scientific and industrial applications of photography. Author's main interest is pictorial photography in England and the development of its technique. (B/C) 61

MORGAN, W. D., and others

Leica manual and data book; W. D. Morgan and H. M. Lester, with J. S. Currell and D. S. Gelatt, associate eds. 13th ed., rev. and reset. New York, Morgan & Lester; London, Fountain Press, 1955. pp. 465, illus. \$6 or 50s.

Intended originally as a companion to the use of the Leica camera, but has become a *vade mecum* for users of miniature cameras in general. Present ed. is re-written and based on the most modern photographic materials. (Previous ed. 1951.) (B) 62

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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Aslib Book-List

A MONTHLY LIST
OF RECOMMENDED SCIENTIFIC
AND TECHNICAL BOOKS
WITH ANNOTATIONS.

February 1956

Volume 21 Number 2 Nos. 63-125

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Non-members: 21s. p.a.

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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Volume 21

Number 2

February 1956

002 DOCUMENTATION

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. European Productivity Administration. *Technical Information Section*

Report of the second meeting of technical information officers held at the Rationalisierungskuratorium der deutschen Wirtschaft in Frankfurt . . . May, 1955. Paris, O.E.E.C.; [London, H.M.S.O.], 1955. pp. 86, illus., diags. 3s. 6d. or 180 fr. 'Cover title: Technical information services in Europe'.

In two sections: one deals with information and documentation services in Germany, and the other with the general activities of the E.P.A. (B) 63

01 BIBLIOGRAPHY

AMERICAN HOSPITAL ASSOCIATION. Library

Cumulative index of hospital literature, 1950-1954. Chicago, the Association, 1955. pp. xix, 513. \$6.

Indexes over 300 journals, many non-medical, all in English language. Dictionary arrangement and form of entry closely similar to H. W. Wilson indexes. (D) 64

SPELL, L. M.

Research materials for the study of Latin America at the University of Texas. Austin, University of Texas Press, 1954 [i.e. 1955]. pp. ix, 107, illus., facsimis. \$1.50.

Descriptive survey of one of the most important collections on Latin America in the United States. (B) 65

TAYLOR, A.

A history of bibliographies of bibliographies. New Brunswick, N.J., Scarecrow Press; [London, Bailey & Swinfen], 1955. pp. ix, 147. \$3.50 or 31s. 6d.

Begins with classical times but mainly concerned with modern and most recent works. A connected study but with valuable annotations on individual books. Complete bibliography and index. (B) 66

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION. International Advisory Committee on Bibliography

Bibliographical services throughout the world; first and second annual reports (1st September-31st August) 1951-52, 1952-53, by L. N. Malclès. Paris, Unesco, 1955. pp. 352, tables. 15s. 6d., 750 fr. or \$2.75. *Unesco bibliographical handbooks*, 4.

Reports progress in bibliographical planning in each country, and lists most important bibliographies published. Includes full sections on work of international organisations and general topics. (B) 67

UNITED STATES. Library of Congress. *Technical Information Division*

Infrared: a bibliography; by C. R. Brown, M. W. Ayton, T. C. Goodwin and T. J. Derby. Washington, U.S. Department of Commerce, Office of Technical Services, 1954 [i.e. 1955]. pp. xi, 374. (PB 111643). \$3.

Covers the years 1935-51 and includes both books and periodical articles. Arranged by a specially devised classification. Author index only. Locations given for books not in the Library of Congress. (D) 68

02 LIBRARIANSHIP

LIBRARY ASSOCIATION

Proceedings, papers and summaries of discussions at the Southport Conference, 19th to 23rd September, 1955. The Association, 1955. pp. 101. 3s. 6d.

Includes a high proportion of papers of special library interest.

(B) 69

3 SOCIAL SCIENCES

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

The international register of current team research in the social sciences (1950-1952); a tentative survey. Paris, Unesco; [London, H.M.S.O.], 1955. pp. 312. 22s. 6d., \$4 or 1,100 fr.

Lists unpublished work in progress, giving names of participants and outline of scope of study (U.K. not included). Entries in English or French. (D) 70

33 ECONOMICS

331 Industrial relations

NATIONAL FEDERATION OF BUILDING TRADES EMPLOYERS

Third report of the National Advisory Committee for the training of general foremen in the building industry. The Federation, 1955. pp. 32. 2s.

Report for period December, 1953 - November, 1955 of the committee established in 1950 to promote the training of foremen.

(B) 71

37 EDUCATION

GREAT BRITAIN. Central Office of Information

Education in Britain. H.M.S.O., 1955. pp. (4), 56, tables. 2s. *Reference pamphlets, no. 7.*

Originally published for circulation abroad, this gives a general outline of the system, and contains a well-chosen bibliography.

(B) 72

GREAT BRITAIN. Ministry of Education. *Committee on Maladjusted Children*

Report. H.M.S.O., 1955. pp. vi, 180, illus., tables. 6s.

The Underwood committee report: important for all working with children.

(B) 73

KANDEL, I. L.

The new era in education: a comparative study; under the editorship of H. C. Hunt. Harrap, 1955. pp. xviii, 388, bibliog. 21s.

Current trends in education as exemplified in England, France, the U.S.S.R. and the U.S.A.

(B) 74

RICHARDSON, J. E.

The active teacher: training and assessment. Routledge & K. Paul, 1955. pp. xii, 188, diags. 14s.

Describes how tape recordings, used with graphs and role-playing techniques can assist in training student-teachers.

(B) 75

WALL, W. D.

Education and mental health: a report based upon the work of a European Conference called by Unesco at the Musée Pédagogique in Paris, November-December, 1952. Paris, Unesco; London, Harrap, 1955. pp. 347, tables, bibliog. 17s. 6d. *Problems in education series, no. 11.*

(B) 76

5 NATURAL SCIENCES

51 MATHEMATICS

DAVIS, D. S.

Nomography and empirical equations. New York, Reinhold; London, C. & H., 1955. pp. 236, \$6.75 or 54s.

Describes and illustrates various methods of 'curve fitting' or the determination of empirical equations, and deals with the theory and construction of simple alignment and line co-ordinate charts. (C) 77

HIRSCHMAN, I. I., and WIDDER, D. V.

The convolution transform. Princeton, N.J., Princeton University Press; London, O.U.P., 1955. pp. x, 258, bibliog. 45s. or \$5.50. *Princeton mathematical series*, ed. by M. Morse and A. W. Tucker, no. 20.

Forms a sequel to Widder's *Laplace transform* volume in the same series. (C) 78

MIRSKY, L.

An introduction to linear algebra. Oxford, Clarendon Press, 1955. pp. xi, 433, bibliog. 35s.

Clear and comprehensive introduction to modern algebra: suitable for degree students. (B) 79

TOPPING, J.

Errors of observation and their treatment. Institute of Physics, 1955. pp. 120, diags., bibliog. 5s. *Monographs for students*, ed. by H. R. Lang

Chapters are entitled: errors of observation; some statistical ideas; and theory of errors. Useful introduction for those dealing with experimental observations. (B) 80

52 ASTRONOMY

WILKINS, H. P., and MOORE, P. A.

The moon: a complete description of the surface of the moon, containing the 300-inch Wilkins lunar map. Faber, 1955. pp. 388, plates, maps, tables, diags. 63s.

An important descriptive work on the lunar features. Includes an appendix of well-known lunar observers. (B) 81

53 PHYSICS

LIN, C. C.

The theory of hydrodynamic stability. Cambridge, C.U.P., 1955. pp. xi, 155, diags., bibliog. 22s. 6d.

A tribute to the memory of von Kármán, presenting a survey of the development of our knowledge of the stability of steady fluid motion, both mathematical and physical. (C) 82

55 GEOLOGY

BOWDEN, K. F.

Physical oceanography of the Irish Sea. H.M.S.O., 1955. pp. 67, maps, tables, diags., bibliog. 7s. 6d. *Fishery investigations series* 2, vol. 18, no. 8.

Survey of work carried out since 1900. Series of charts gives seasonal distributions of temperature, salinity, tide and tidal currents. (B/C) 83

EDMUNDS, F. H.

Geology and ourselves. Hutchinson, 1955. pp. 256, plates, illus., maps, tables, diags. 21s.

Clearly written in non-technical language, and well-illustrated. (A) 84

GIGNOUX, M.

Stratigraphic geology; trans. from 4th French ed. by G. G. Woodford. San Francisco, Freeman; London, Bailey & Swinfen, 1955. pp. xvi, 682, maps, tables, diagrs., bibliog. \$9.50 or 80s. *Series of geology texts, ed. by J. Gilluly and A. O. Woodford.*

Translation of standard primer of world stratigraphy; for students and amateurs of geology and geography. (B) 85

LONGWELL, C. R., and FLINT, R. F.

Introduction to physical geology. New York, Wiley; London, C. & H., 1955. pp. x, 432, illus., maps, tables, diagrs., bibliog. 40s. or \$5. (B) 86

57 BIOLOGY

571 Prehistory

COON, C. S.

The history of man from the first human to primitive culture and beyond. Cape, 1955. pp. xxii, 437, illus., maps. 28s.

Scientific and imaginative; an up-to-date picture of knowledge of early man by a well-known anthropologist. (B) 87

572 Anthropology

REDFIELD, R.

The little community: viewpoints for the study of a human whole. Chicago, Chicago University Press; London, C.U.P., 1955. pp. 7, 182. 30s. or \$4. *Comparative studies of cultures and civilizations, ed. by R. Redfield and M. Singer.* (B) 88

6 APPLIED SCIENCES

62 ENGINEERING

621 Mechanical engineering

HOLZBOCK, W. G.

Instruments for measurement and control. New York, Reinhold; London, C. & H., 1955. pp. vi, 371, illus., tables, diagrs. 80s. or \$10.

Deals primarily with industrial instruments commonly used for remote reading or remote automatic action. Operational details are illustrated. (C) 89

621.039 Nuclear engineering

GLASSTONE, S.

Principals of nuclear reactor engineering. New York, Van Nostrand, 1955. pp. 871, illus. \$7.95.

A source book for reactor engineering education based upon the experience obtained in the laboratories of the U.S. Atomic Energy Commission. Covers the fundamental principles of the design, construction and operation of fission reactors. (B) 90

621.3 Electrical engineering

KEEN, A. W.

Electronics. Ward, Lock, 1955. pp. 256, plates, tables, diagrs. 25s.

Good introduction for the general reader. (A) 91

621.4 Internal combustion and heat engineering

DANIELS, F., and DUFFIE, J. A., eds.

Solar energy research. Thomas & Hudson, 1955. pp. xv, 290, plates, tables, diagrs., bibliog. 30s.

Comprehensive study of all phases of the utilization of solar energy. Based on a symposium held in Madison, Wisconsin, on 12-14 September, 1953. (C) 92

621.7 Workshop practice

BRITISH WELDING RESEARCH ASSOCIATION

Principles of argon-arc welding aluminium; by P. T. Houldcroft. The Association, 1955. pp. 18, bibliog. 2s. 6d.

First in series of six booklets covering aspects of argon-arc welding. Good selected bibliography. (C) 93

HEINE, R. W., and ROSENTHAL, P.

Principles of metals casting: prepared in co-operation with the Textbook Committee of the Education Division, American Foundrymen's Society, Des Plaines, Illinois. New York, London, McG.-H., 1955. pp. ix, 639, illus., tables, diagrs., bibliogs. 56s. 6d. or \$7.50.

Comprehensive and up-to-date. Bibliographies at the end of each chapter. (B) 94

NEWELL, W. C., ed.

The casting of steel. Pergamon Press, 1955. pp. viii, 599, illus., tables, diagrs., bibliogs. 105s.

Written by a group of specialists and covering most aspects of casting from the properties of the liquid metal to mechanical and non-destructive testing. (B) 95

WALKER, W. F.

Fundamentals of press tool design. C. Lockwood, 1955. pp. 152, tables, diagrs. 12s. 6d.

Based on a series of articles in 'The Toolmaker', will be useful to production engineers, draughtsmen and students. (B) 96

622 Mining

DONALD, M. B.

Elizabethan copper: the history of the Company of Mines Royal, 1568-1605. Pergamon Press, 1955. pp. vii, 405, illus., maps, tables, bibliog. 60s.

History of the Company and their mines in Cumberland and Cornwall and smelter in S. Wales. (B) 97

623 Military and naval engineering

INSTITUTION OF NAVAL ARCHITECTS

The papers of William Froude, M.A., LL.D., F.R.S., 1810-1879; with a memoir by Sir Wescott Abell and an evaluation of William Froude's work by R. W. L. Gawn, collected into one volume by the Institution of Naval Architects and prepared for publication by the Secretary of the Institution, Capt. A. D. Duckworth. The Institution, 1955. pp. xxii, 343, illus., tables, diagrs. 84s.

(B) 98

624 Civil engineering

SOIL MECHANICS, Ltd.

A handbook of site investigation, geotechnical processes and construction devices. The Company [1955]. pp. [122], illus., diagrs. gratis.

A useful guide to current soil engineering methods, well illustrated with diagrams and photographs. (B) 99

UNITED STATES LIST-SLAB CORPORATION

Engineering manual. Austin, Texas, the Corporation, 1955. pp. 74, illus. \$5.

- A reference book for the architect or engineer to provide an outline of the problems in the design of concrete structures by the 'Lift-slab' or 'Youtz-slick' method. (A) 100

63 AGRICULTURE.

BOWEN, G.

Wool away! The art and technique of shearing: Whitcombe & Tombs, 1955. pp. 161, illus. 17s. 6d.

- First adequate and authoritative manual on the difficult but essential art of sheep shearing. (B) 101

GIBB, J. A. C.

Crop drying, barn and storage machinery. Temple Press, 1955. pp. xi, 173, illus., tables, diagrs., bibliog. 18s.

- A help to the farmer in selecting, operating and managing these types of machinery. (B) 102

NOTTINGHAM UNIVERSITY. School of Agriculture. Easter School in Agricultural Science, 2nd, 1955

Soil zoology; proceedings of the University of Nottingham second Easter School in Agricultural Science, 1955; ed. by D. K. McE. Kevan. Butterworth, 1955. pp. xiv, \$12, illus., plates, tables, diagrs., bibliog. 55s.

- An introduction to a neglected field of soil science, likely to be of use to the general worker. (B) 103

65 COMMUNICATIONS AND COMMERCE

651/652 Office Management

DUNKLEY, J. E.

Office printing and duplicating. 2nd ed. Office Management Association, 1955. pp. 17, tables. 5s. [Based on a paper presented at a one-day conference held by the Office Management Association.]

- Brought up-to-date and considerably condensed in the revision; many of the illustrations have been omitted. (B) 104

FIDLER, E. E.

Communications. 2nd ed. Office Management Association, 1955. pp. 24, illus. 5s. [Based on a paper presented at a one-day conference held by the Association on 18th March, 1952].

- The revision has brought the facts up-to-date, but the paper has also been considerably condensed. (B) 105

KAHN, G., and YERIAN, T.

Progressive filing. 6th ed. New York, London, McG.-H., 1955. pp. viii, 151, illus., tables, diagrs. 19s. or \$2.58. Previous eds. issued by Remington Rand Inc., as *Progressive indexing and filing*.

- A standard work on filing systems for the office, brought up-to-date, provided with new illustrations and slightly condensed for issue on a trade basis. (B) 106

656 Transport

LA DAGE, J. H.

Merchant ships: a pictorial study. Cambridge, U.S.A., Cornell Maritime Press, 1955. pp. 481, illus. \$15.

- Interesting, profusely illustrated, general book on merchant ships, dealing with life on the ships, types of merchant ships, ship handling and other aspects. (A) 107

658 Industrial management.

BRITISH INSTITUTE OF MANAGEMENT

Outline of work study, Part II: method study. The Institute, 1955. pp. xi, 72, diags. 7s. 6d. *Production management series, 2B.*

Well-produced introduction to the subject, largely in tabular and diagrammatic form; designed to encourage the use of work study in organizations of all kinds. (B) 108

GREAT BRITAIN. Medical Research Council

Psychological tests for accident proneness and industrial proficiency: a summary of reports nos. 38, 55, 68, 74 and 84 of the Industrial Health Research Board; by E. G. Chambers. H.M.S.O., 1955. pp. iii, 30, tables, diags., bibliog. 2s. (B) 109

GURNHAM, C. F.

Principles of industrial waste treatment. New York, Wiley; London, C. & H., 1955. pp. xi, 399. \$9.50 or 76s.

An account of the processes which can be used to treat industrial waste waters before discharge to streams or to municipal sewers. (B) 110

66 CHEMICAL TECHNOLOGY

BRITISH LAUNDERERS' RESEARCH ASSOCIATION.

Laundry chemistry. The Association, 1955. pp. 152, illus. 12s. 6d.

Elementary but authoritative textbook dealing with the chemical processes involved in water softening, washing, stain removal and laundry finishing of textiles. (B) 111

MONDOLFO, L. F., and ZMESKAL, O.

Engineering metallurgy. New York, London, McG.-H., 1955. pp. ix, 397, illus., tables, diags., bibliog. 56s. 6d. or \$7.50. (B) 112

TRINKS, C. L. W.

Industrial furnaces; Vol. 2. 3rd ed. New York, Wiley; London, C. & H., 1955. pp. x, 358, illus., tables, diags. 80s. or \$10.

This work consists of 2 vols. which are to some extent independent. This edition has been considerably re-written, and over 100 new illustrations incorporated. (C) 113

67 MANUFACTURES

677 TEXTILES

OVERMAN, R., and SMITH, L.

Contemporary handweaving. Ames, Iowa, Iowa State College Press, 1955. pp. 180, illus. \$7.50.

For creative artists who wish to learn the basic techniques of weaving, using the 4-harness loom. (A/B) 114

678 Rubber

IMPERIAL CHEMICAL INDUSTRIES, LTD.

Applications of science in rubber technology. Blackley, Manchester, the Division, 1955. pp. v, 101, illus., bibliog. Gratis.

Based on five lectures delivered at Newton Heath Technical School. (B) 115

679.5 Plastics

SEYMOUR, R. B., and STEINER, R. H.

Plastics for corrosion-resistant applications. New York, Reinhold; London, C. & H., 1955. pp. xvi, 423, illus., tables, diags. \$7.50 or 60s.

Provides information on selection of plastics for construction in corrosive atmospheres; includes data on use of plastics and consideration of rubber, rubber derivatives and other materials of interest to corrosion engineers. (C) 116

69 BUILDING

GREAT BRITAIN. Building Research Station

The thermal insulation of buildings; design data and how to use them. H.M.S.O., 1955. pp. vii, 139, tables, diags. 12s. 6d.

Aims at providing building designers with a convenient source of information on the use, performance and cost of heat insulating materials. (B) 117

INSTITUTION OF ELECTRICAL ENGINEERS

Regulations for the electrical equipment of buildings. 13th ed. The Institution, 1955. pp. viii, 182, tables, diags. 8s. 6d. or 6s. (paper covers)

This ed. completely revised in conformity with the most recent statutory regulations. (D) 118

77 PHOTOGRAPHY

MICHAELIS, A. R.

Research films in biology, anthropology, psychology and medicine. New York, Academic Press; London, Academic Books, 1955. pp. xi, 490, illus., table, diags. \$10 or 80s.

In addition to describing the techniques, the author makes an exhaustive review of studies which have been carried out by cinematography in his selected subjects.

Bibliography of 1490 items includes film titles as well as books and periodicals. (C) 119

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN

Science and applications of photography; proceedings of the international conference held on the occasion of the centenary of the Society, London, 19-25 September, 1953, ed. by R. S. Schultze. The Society, 1955. pp. ix, 664, front., illus., plates, tables, diags. 63s.

Papers on a wide variety of photographic techniques and special applications, including a number on documentary reproduction and several bibliographies. (B) 120

9 HISTORY

93 ARCHAEOLOGY

PARROT, A.

The flood and Noah's ark; trans. from the French by E. Hudson. S.C.M. Press, 1955. pp. 76, illus., maps, diags., bibliog. 7s. 6d. *Studies in Biblical archaeology* no. 1.

Translation of book by one of the best known archaeologists working in the Near East. (A) 121

94 EUROPEAN HISTORY

GRINDROD, M.

The rebuilding of Italy; politics and economics, 1945/1955. Royal Institute of International Affairs, 1955. pp. 269. 21s.

Factual account essential to understanding of present day problems. (B) 122

GROSSER, A.

Western Germany: from defeat to rearmament; trans. from the French by R. Rees. A. & U., 1955. pp. 249, map, bibliog. 18s.

The author, a Frenchman on the staff of the University of Paris, has had first hand experience of the political, social and cultural developments of the last decade. (B) 123

MOWAT, C. L.

Britain between the wars, 1918-1940. Methuen, 1955. pp. ix, 694, tables, bibliog. 30s.

One of the best political and social histories of the period. (B) 124

95 ASIATIC HISTORY

BUSS, C. A.

The Far East; a history of recent and contemporary international relations in East Asia. New York, Macmillan, 1955. pp. 738. \$6.50.

Deals primarily with period since 1900. (B) 125

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin
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 H.M.S.O.: Her Majesty's Stationery Office
 L.G.: Longmans, Green
 McG.-H.: McGraw-Hill
 O. & B.: Oliver and Boyd
 O.U.P.: Oxford University Press

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Aslib. Book-List



A MONTHLY LIST
OF RECOMMENDED SCIENTIFIC
AND TECHNICAL BOOKS
WITH ANNOTATIONS

March 1956

Volume 21 Number 3 Nos. 126-188

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ASLIB : 4 PALACE GATE, LONDON, W.8

PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

Editorial Advisory Board:

R. L. Collison (Chairman)

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Elaine Shanks

ASLIB BOOK-LIST

Volume 21

Number 3

March 1956

01 BIBLIOGRAPHY

BRITISH National Bibliography cumulated index, 1950-1954; ed. under the direction of A. J. Wells. British National Bibliography, 1956. pp. 6, 1150. 168s.

An almost essential aid for quick bibliographical searching for recent British books.

(D) 126

BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION

Knife-edge bearings: a bibliographical survey by P. J. Geary. Chislehurst, Kent, the Association, 1955. pp. viii, 61, diagrs. 10s. 6d. *Bibliographical survey of instrument parts*, no. 2.

First half consists of an essay surveying the field; this is followed by an annotated bibliography. A valuable series for instrument designers.

(C/D) 127

SPECTROCHEMICAL abstracts, vol. IV, 1946-1951; by E. H. S. van Someren and F. Lachman. Hilger & Watts, 1955. pp. 179. 30s.

Selective bibliography arranged in two sequences: author sequence gives only bibliographical details; classified subject sequence gives abstract.

(D) 128

02 LIBRARIANSHIP

ASSOCIATION OF ASSISTANT LIBRARIANS

The Final Examination. Part 3a (iv): English literature, 1780-1900; Part 3a (v): English literature, 1900 onwards; by L. M. Johns and A. J. Walford. The Association, 1955. pp. 31. 4s. 6d. (3s. 6d. to members.) *A.A.L. guides to the Library Association examinations under the general editorship of A. J. Walford*.

See entry no. 130.

(B) 129

ASSOCIATION OF ASSISTANT LIBRARIANS

The Final Examination. Part 4(c): Advanced classification and cataloguing; (a) Classification, by J. Mills; (b) Cataloguing, by D. M. Norris. The Association, 1955. pp. 31. 4s. 6d. (3s. 6d. to members.) *A.A.L. guides to the Library Association examinations under the general editorship of A. J. Walford*.

Advice on study and reading for the parts of the examinations in question.

(B) 130

CUNNINGHAM, E. R.

Classification for medical literature; with the collaboration of E. G. Steinke. 4th ed. rev. and enl. Nashville, Vanderbilt University Press, 1955. pp. xix, 164. \$2.75.

(B) 131

MUSIC INDEX

Subject heading list. Detroit, Information Service Inc., 1955. pp. [8], 48, mimeographed. \$2.50.

Attempts to provide specific subject headings for indexing of literature on music, tested in use in *Music Index*. Gives tables for special sub-divisions of headings, including those for instruments, also a table of geographical divisions.

(B) 132

3 SOCIAL SCIENCES

33 ECONOMICS

PEARSE, A. S.

Japan's cotton industry (1955): with a chapter on Hong Kong and Shanghai Cotton Mills. Heaton Mersey, Manchester, Cloister Press, 1955. pp. 136, illus., tables. 15s.

Informed review of the rebirth of the Japanese Cotton Trade with much statistical data not easily available elsewhere. (B) 133

SHAW, E. B.

World economic geography; with an emphasis on principles. New York, Wiley; London, C. & H., 1955. pp. vii, 582, illus., maps, diagrs., tables, bibliogs. 52s. or \$6.50.

Useful book covering methods in economic geography; forest, fish and animal industries; agriculture; manufactures and trade; world populations. Much original material skilfully presented. (B) 134

34 LAW

RICH, S. F.

Municipal law for the engineer. Macdonald & Evans, 1956. pp. xii, 223, tables. 25s.

Useful exposition of English law, but unfortunately does not differentiate between England and Scotland. (B) 135

36 INSURANCE

INSTITUTE OF LONDON UNDERWRITERS

Papers on marine insurance matters; vol. 3. The Institute, 1955. pp. v, 49. 5s. 'Obtainable from Witherby & Co. Ltd., 15 Nicholas Lane, London, E.C.4.'

Three lectures delivered at the Institute on specialized topics. (C) 136

INTERNATIONAL LABOUR OFFICE

Unemployment insurance schemes. Staples Press, for International Labour Office, 1955. pp. iv, 254. 9s.

Comparison of schemes in different countries. (C) 137

37 EDUCATION

HODGSON, F. M.

Learning modern languages. Routledge & K. Paul, 1955. pp. ix, 100. 10s. 6d.

Pays particular attention to the problems of the non-linguistic pupil. (B) 138

MOCK, R.

Principles of art teaching; a handbook for teachers in primary and secondary schools; with a foreword by A. B. Clegg. University of London Press, 1955. pp. 96, front., illus. 16s.

A particularly sensible treatment of the subject. (B) 139

VENABLES, P. F. R.

Technical education: its aims, organization and future development; with five chapters by specialist authors. Bell, 1955. pp. xii, 645, tables, diagrs., bibliog. 42s.

Full and factual survey of the fields of technical, commercial and art education. (B) 140

5 NATURAL SCIENCES

51. MATHEMATICS

FINNEY, D. J.

Experimental design and its statistical basis. Cambridge, C.U.P., 1955. pp. xi, 169, tables, bibliog. 30s. *The scientist's library; biology and medicine; ed. by P. P. H. De Bruyn.*

Presents the basic principles of the application of statistical science to experimental design, more especially in the biological sciences. A lucid treatment. (B) 141

THURSTON, H. A.

The number-system. Blackie, 1956. pp. xiii, 134. 15s.

The construction of the number field: in two parts, the first descriptive and explanatory, the second abstract and formal. (B) 142

53 PHYSICS

ANDREW, E. R.

Nuclear magnetic resonance. Cambridge, C.U.P., 1955. pp. xi, 265, illus., tables, diagrs., bibliog. 35s. *Cambridge monographs on physics, ed. by N. Feather and D. Shoenberg.*

A comprehensive review of the phenomena of nuclear magnetic resonance and of the experimental techniques used to measure resonance frequency, nuclear moment and spin. (C) 143

EVANS, R. D.

The atomic nucleus. New York, London, McG.-H., 1955. pp. xv, 972, tables, diagrs., bibliog. 109s. or \$14.50. *International series in pure and applied physics, ed. by L. I. Schiff.*

An experimentalist's approach to the understanding of the fundamental theory of nuclear phenomena—intermediate between a theoretical treatise and a detailed handbook of experimental techniques. (B) 144

HARNWELL, G. P., and STEPHENS, W. E.

Atomic physics: an atomic description of physical phenomena. New York, London, McG.-H., 1955. pp. xi, 401, tables, diagrs., bibliog. 60s. or \$8. *International series in pure and applied physics, ed. by L. I. Schiff.*

Textbook for first-year post-graduates in which emphasis is on the extension of the basic classical concepts of physics into realm of atomic phenomena. (B) 145

WOOD, A. B.

A textbook of sound: being an account of the physics of vibrations with special reference to recent theoretical and technical developments. 3rd rev. ed. Bell, 1955. pp. xvi, 610, illus., tables, diagrs. 42s.

Standard textbook brought up-to-date. Lucidly written with numerous illustrations and references. (B) 146

54 CHEMISTRY

BRITTON, H. T. S.

Hydrogen ions: their determination and importance in pure and industrial chemistry; Vol. 1. 4th ed. rev. and enlarged. C. & H., 1955. pp. xix, 476, illus., tables, diagrs. 70s. *Monographs on applied chemistry, vol. 3.*

Standard work for the technical chemist now brought up-to-date. (C) 147

INSTITUTE OF PETROLEUM

Molecular spectroscopy; ed. by G. Sell. The Institute, 1955. pp. 234, illus. 42s.

Collection of 19 papers discussed at conference organized by the Hydrocarbon Research Group in 1954. All aspects are covered, with emphasis on newer techniques. Includes discussion on use of punched cards for presentation of spectral data. (C) 148

SNEED, M. C., *and others, eds.*

Comprehensive inorganic chemistry: ed. by M. C. Sneed, J. L. Maynard and R. C. Brasted; Vol. 4, Zinc, cadmium and mercury, by H. M. Cyr and the eds.; Scandium, yttrium and the lanthanide series by T. D. O'Brian and the eds. New York, Van Nostrand; London, Macmillan, 1955. pp. xii, 193, illus., tables, diags., bibliog. 37s. 6d. or \$5.

(C) 149

57 BIOLOGY

WAGSTAFFE, R., *and* FIDLER, J. H., *eds.*

The preservation of natural history specimens: Vol. 1, Invertebrates. Witherby, 1955. pp. xii, 205, illus., tables, diags. 42s.

With second vol. (now in preparation) this will form an indispensable source of information to all interested in the subject.

(B/C) 150

58 BOTANY

GRIGSON, G. E. H.

The Englishman's flora; illus. with woodcuts from sixteenth-century herbals. Phoenix House, 1955. pp. 478, front., illus., bibliog. 95s.

New kind of flora: mythology and folk-lore while conforming to scientific classification and nomenclature. Good index, and useful bibliography.

(A) 151

59 ZOOLOGY

HENRY, G. M. R.

A guide to the birds of Ceylon; illus. by the author. O.U.P., 1955. pp. xl, 432, plates, illus. 42s.

Identifies the 400 species to be seen in Ceylon; illus. based on field observations by the author over period of 35 years.

(A) 152

6 APPLIED SCIENCES

62 ENGINEERING

LOW, B. B.

Strength of materials. 2nd ed. L.G., 1955. pp. vii, 320, illus., tables, diags. 18s. 6d.

This edition considerably improved by the addition of chapters on the testing of materials and the mechanical properties of materials.

(B) 153

MINER, D. F., *and* SEASTONE, J. B., *eds.*

Handbook of engineering materials: prepared by a staff of specialists. New York, Wiley; London, C. & H., 1955. pp. 1380, illus. \$17.50 or 140s.

Gives brief details of properties and characteristics of a very wide range of engineering materials. Designed especially for the practising engineer and not as a work of general reference.

(C) 154

621.4 Internal combustion and heat engineering

LAMB, J.

Petroleum and its combustion in diesel engines: with special reference to the use of residual fuels. Griffin, 1956. pp. viii, 264, illus., tables, diags. 26s.

Useful to those in charge of diesel engines, particularly sea-going engineers in motor ships. Aims to assist in economical use of fuel.

(C) 155

621.89 Lubricants

SLAYMAKER, R. R.

Bearing lubrication analysis. New York, Wiley; London, C. & H. pp. 108, illus. \$5 or 40s.

Mathematical analysis of the design of full journal bearings. A few references given, mainly to American sources. (B) 156

621.9 Machine tools

AMERICAN SOCIETY OF TOOL ENGINEERS

Die design handbook: a practical reference book on process analysis, product design, metal movements, materials and proved die designs for every class of sheet metal pressworking; ed. by F. W. Wilson. London, New York, McG.-H., 1955. pp. 732. \$14.50 or 109s. 6d.

Comprehensive work prepared by many contributors. Divided into 27 sections, most with their own bibliography. Contains much practical information and is of great value. (C) 157

MOORE, R. F., and VICTORY, F. C.

Holes, contours and surfaces located, machined, ground and inspected by precision methods; including Woodworth circular tables. Bridgeport, Conn., Moore Special Tool Co.; Brighton, Machinery Publishing Co., 1955. pp. 422, illus. \$7.50 or 65s.

An extended version of 'Precision Hole Location' published in 1946 and now out-of-print. Sets out clearly the various methods of location in the workshop, the accurate production of contours and surfaces, and the machining operations involved. (C) 158

626/627 Hydraulic engineering

RICHARDS, B. D.

Flood estimation and control. 3rd rev. ed. C. & H., 1955. pp. xiii, 187, tables, diags. 35s.

Of use to civil engineers; this ed. includes consideration of the Lynmouth flood, and more detailed treatment of the unit hydrograph. (C) 159

63 AGRICULTURE

JOHNSON, S. E., and others

Getting started in farming. New York, Van Nostrand; London, Macmillan, 1955. pp. xii, 372, illus., tables, diags., bibliog. 30s. or \$5.25.

Written for young Americans, but has useful basic information. (A) 160

METCALF, R. L.

Organic insecticides: their chemistry and mode of action. New York, London, Interscience, 1955. pp. x, 392, tables, diags., bibliog. 68s. or \$8.50.

(B) 161

TURNER, N.

Fertility pastures: herbal leys as the basis of soil fertility and animal health. Faber, 1955. pp. 204, illus., tables. 18s.

(B) 162

WHEELER, R. G., and BLACK, J. D.

Planning for successful dairying in New England. Cambridge, Mass., Harvard University Press; London, Oxford University Press, 1956. pp. xiii, 321, maps, tables, diags. 40s.

Study of the economics of dairy farming in six New England States and an analysis of the problems to be solved. (C) 163

65 COMMUNICATIONS AND COMMERCE

655 Printing. Publishing. Book Trade

AVIS, F. C.

Printing management calculations: graphical methods, production, finance. 26 Gordonbrock Road, S.E.4, the author, 1955. pp. 152, tables, diagrs. 12s. 6d.

Deals with arithmetic of management as affecting the distribution of work to composing, machine, binding and other departments, and with other financial aspects of printing. Includes a comprehensive glossary. (B) 164

WARDE, B.

The crystal goblet: sixteen essays on typography; selected and edited by H. Jacob. Sylvan Press, 1955. pp. [1], 221, illus., bibliog. 21s.

(B) 165

652 Transport

HARDY, A. C.

History of motor-shipping. Whitehall Technical Press, 1955. pp. 429. 42s.

Much information has been gathered into this volume, including a register of early motor ships: Well indexed. (B) 166

SANDERSON, H. F.

Railway commercial practice: supplement to Vols. 1 and 2. C. & H., 1955. pp. 48. 3s. 6d.

Brings the author's book up-to-date by incorporating the Transport Act 1953, re-organization of British Transport Commission and modifications to charges scheme. (B) 167

658 Industrial management

MAIER, N. R. F.

Psychology in industry: a psychological approach to industrial problems; ed. by L. Carmichael. 2nd ed. Harrap, 1955. pp. xv, 678, front., illus., tables, diagrs., bibliog. 30s.

Fairly elementary treatment designed for American students, but will be of use as an introduction for younger students of management and supervisors in industry. (B) 168

66 CHEMICAL TECHNOLOGY

BLANKS, R. F., and KENNEDY, H. L.

The technology of cement and concrete: Vol. 1; Concrete materials. New York, Wiley; London, C. & H., 1955. pp. ix, 422, front., illus., tables, diagrs. 88s. or \$11.

Deals with the manufacture and properties of cement. (B) 169

CHATFIELD, H. W., ed.

Paint and varnish manufacture. Newnes, 1955. pp. xi, 440, illus., tables, bibliogs. 35s. *Chemical and chemical engineering series*, ed. by E. Molloy.

Deals with raw materials, including the drying oils, synthetic and natural resins, solvents, pigments, etc., and with the manufacture of paints, particularly industrial and decorative finishes. (C) 170

INSLEY, H., and FRÉCHETTE, V. D.

Microscopy of ceramics and cements; including glasses, slags and foundry sands. New York; Academic Press; London, Academic Books, 1955. pp. 286, illus. 60s. or \$7.50.

(C) 171

SEARLE, A. B.

Modern brickmaking. 4th ed. rev. and enl. Benn, 1956. pp. xxiv, 734, illus., tables, diagrs. 90s.

(B) 172

669 Metallurgy

LI, K. C., and WANG, C. Y.

Tungsten; its history, geology, ore-dressing, metallurgy, chemistry, analysis, applications and economics. 3rd. ed. New York, Reinhold; London, C. & H., 1955. pp. 506, illus., maps, tables, diagrs., bibliog. 112s. or \$14. *American Chemical Society. Monographs, no. 94.*

Welcome revision of well-known textbook, useful to students, users and economists.

(B) 173

MCQUILLAN, A. D., and MCQUILLAN, M. K.

Titanium. Butterworth, 1955. pp. xix, 466, illus., tables, diagrs., bibliogs. 56s. *Metallurgy of the rarer metals, no. 4; ed. by H. M. Finnieston.*

A concise account assembling information on the fabrication and properties of titanium.

(B) 174

ROLFE, R. T.

Steels for the user. 3rd rev. ed. C. & H., 1955. pp. xvi, 399, plates, tables, diagrs., bibliogs. 45s.

Essentially a practical book, of value to the designer and engineer and also to the student or apprentice. Good descriptions of methods of treatment, and many excellent tables.

(B) 175

SCHOELLER, W. R., and POWELL, A. R.

The analysis of minerals and ores of the rarer elements: a manual for analytical chemists, metallurgists and advanced students. 3rd ed. extensively rev. by A. R. Powell. Griffin, 1955. pp. xv, 408, tables. 60s.

Most useful enlarged ed. of a well-known book.

(C) 176

67 MANUFACTURES

677 Textiles

MEREDITH, R., ed.

The mechanical properties of textile fibres. Amsterdam, North-Holland Publishing Co., 1956. pp. xii, 333, illus. 61s.

Up-to-date summary and review of work, particularly during the last 10 years, on the mechanical properties and structure of cellulose, protein and synthetic fibres.

(B/C) 177

WOOL INDUSTRY RESEARCH ASSOCIATION

Physical properties of wool fibres and fabrics; ed. by F. L. Warburton and others. The Association, 1955. pp. vi, 234, illus. 30s. *Wool research series, vol. 2.*

Review of work by W.I.R.A. and others, designed for the textile technologist and management, and for research workers.

(B/C) 178

678 Rubber

INSTITUTION OF THE RUBBER INDUSTRY

Proceedings of the 3rd Rubber Technology Conference, London, 1954; ed. by T. H. Messenger. Cambridge, Heffer for the Institution, 1956. pp. xxix, 780, illus., tables, diagrs. 84s.

Full text of 50 papers, with discussions, under main headings: Properties of natural rubber latex, production and evaluation of synthetic rubber, chemistry of rubber, physics of rubber, developments in testing methods, compounding, mix-technology.

(B) 179

679.5 **Plastics**

MORGAN, P., ed.

Plastics progress, 1955: papers and discussions at the British Plastics Convention, 1955. Iliffe, for *British Plastics*, 1956. pp. viii, 432, illus., tables, diags., bibliogs. 50s.

Third in the series. Includes some 20 papers presented at the Convention, providing an authoritative review of recent advances in the field. (C) 180

69 **BUILDING**

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION

Welded details for single-storey portal frames. The Association, 1955. pp. 67, illus., diags., bibliog. 2s. 6d. *British Constructional Steelwork Association publications*, no. 9.

An annotated collection of illustrations of joints and other details. (C) 181

BRITISH STANDARDS INSTITUTION

Summaries of British standards for building materials and components for housing. 1955 ed. The Institution, 1955. pp. 658, illus., tables, diags. 70s. *Handbooks*, no. 3.

This ed. in loose-leaf form will be supplemented in future by additional summaries of new and revised standards. (B) 182

LIN, T. Y.

Design of pre-stressed concrete structures. New York, Wiley; London, C. & H., 1955. pp. ix, 456, illus., tables, diags., bibliog. 92s. or \$11.50.

With particular reference to American practice. (B) 183

MURDOCK, L. J.

Concrete materials and practice. 2nd ed. E. Arnold, 1955. pp. viii, 367, illus., tables, diags., bibliog. 40s.

A broad outline of the science of concrete making. This ed. contains new chapters on admixtures and the more practical aspects of pre-stressed concrete and a revised chapter on mix design. (B) 184

STEINER, K.

Oil burners. Rev. ed. New York, Heating Publishers, 1955. pp. xxii, 502, illus. \$6.

Design of oil burners of different types, electric control systems and devices, ignition methods, oil piping, boiler capacity, oil pre-heating, storage tanks, service and maintenance. (B) 185

TRANE CO.

Trane air conditioning manual. 4th ed. La Crosse, Wis., the Company, 1955. pp. xix, 380, illus. \$6.50.

The theory and practice of air conditioning with reference tables and psychrometric chart. (B) 186

77 **PHOTOGRAPHY**GREAT BRITAIN. Central Office of Information. *Central Film Library*

Films for industry; a catalogue of 16mm. films for industrial users, including a filmstrip section, 1956-1957. The Library, 1955. pp. 139, plates. 2s.

Complete catalogue of films available from the Library, superseding previous issues. Entries annotated and many illustrated by stills. (D) 187

LORELLE, L.

The colour book of photography; trans. from the French ed. by G. R. Sharp. Focal Press, 1955. pp. 212, illus., tables, diags. 12s. 6d.

Colour photography for the amateur. (B) 188

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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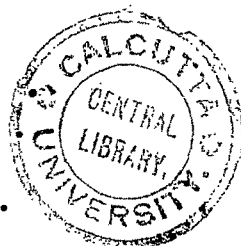
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Volume 21

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Aslib members: 12s. p.a.

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ASLIB . 4 PALACE GATE, LONDON, W.8

PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

Editorial Advisory Board:

R. L. Collison (Chairman)

S. C. Goddard

Elaine Shanks

ASLIB BOOK-LIST

Volume 21

Number 4

April 1956

01 BIBLIOGRAPHY

A LEGAL bibliography of the British Commonwealth of Nations. Vol. 1, English law to 1800, including Wales, the Channel Islands and the Isle of Man. 2nd ed.; comp. by W. H. Maxwell and L. F. Maxwell. Sweet & Maxwell, 1955. pp. xvi, 687. 70s.

First of projected series of 7. Classified arrangement with subject, place and author and title indexes. Aims to include books from beginning of printing. (D) 189

NATIONAL INFORMATION SERVICE

Nifor guide to Indian periodicals, 1955-1956. Poona, National Information Service, 1955. pp. xii, 385, maps, tables. 45s. or Rs. 30/8.

Excellent directory giving full bibliographical details, in classified arrangement, with subject and title indexes, and other useful information. (D) 190

SOUTH AFRICAN PUBLIC LIBRARY, Cape Town

A bibliography of African bibliographies, covering territories South of the Sahara. 3rd ed. (rev. to August, 1955). Cape Town, the Library, 1955. pp. vii, 169. 12s. 6d. *Grey bibliographies*, no. 5. 'Comp. by P. Freer and D. H. Varley, and rev. by A. M. Lewin Robinson.'

Includes bibliographies on Africa published elsewhere. Arranged by U.D.C. with combined author and subject index. (D) 191

SZLADITS, C., comp.

A bibliography on foreign and comparative law; books and articles in English. New York, Oceana Publications, for Parker School of Foreign and Comparative Law, Columbia University, 1955. pp. xx, 508. \$15. *Parker School studies in foreign and comparative law*.

Covers law of non-common law countries. Classified arrangement with author and geographic indexes. Selected items are briefly annotated. (D) 192

02 LIBRARIANSHIP

AMERICAN library annual for 1955-1956; sponsored by the Council of National Library Associations and the *Library Journal*; ed. by W. E. Wright and the editorial staff of the R. R. Bowker Company. New York, Bowker, 1956. pp. [8], 165, tables, diags. \$5.

Very full directory of associations and committees in the library profession, with much general and statistical information on libraries and the book trade in the U.S.A. (D) 193

INTERNATIONAL BUILDING CLASSIFICATION COMMITTEE

ABC; abridged building classification for architects, builders, civil-engineers; a selection from the Universal Decimal Classification. 2nd ed. Rotterdam, Section Documentation of the International Council for Building Research, Studies and Documentation; [London, British Standards Institution], 1955. pp. 70. 23s. 6d. *FID pub. no. 261*.

Selection from the full U.D.C. tables of those sections likely to be of use to a small enterprise in the building industry. (D) 194

SAYERS, W. C. B.

First steps in annotation in library catalogues. [New ed.] Association of Assistant Librarians, 1955. pp. 14. 2s. 9d. (2s. 3d. to members).

Up-to-date revision of essential text for all concerned with bibliographical annotations. (B) 195

96 MUSEUMS

COLE, S. M.

Counterfeit. J. Murray, 1955. pp. vii, 269, plates, illus. 15s.

Tells for first time the full story of the 'Luebeck trial', then deals with forgery as a whole. Author is particularly interested in prehistoric archaeology and a third of book concerns the Piltdown puzzle. (A) 196

3 SOCIAL SCIENCES

DENNIS, N., and others

Coal is our life: an analysis of a Yorkshire mining community; by N. Dennis, F. Henriques and C. Slaughter. Eyre & Spottiswoode, 1956. pp. 255. 25s.

A sociological survey. (A) 197

32 POLITICAL SCIENCE

ARNOLD, G. L.

The pattern of world conflict. A. & U., 1956. pp. vi, 250, tables, bibliog. 21s.

Tensions between East and West. (B) 198

BELOFF, M.

Foreign policy and the democratic process. O.U.P., 1956. pp. 134. 15s. *Albert Shaw lectures on diplomatic history, 1954.*

Difficulties encountered by democracies in formulating and executing a long-range consistent foreign policy. (C) 199

DEGRAS, J., ed.

The Communist International, 1919-1943: documents; vol. 1, 1919-1922; selected and ed. by J. Degras. O.U.P., for Royal Institute of International Affairs, 1956. pp. xvi, 463. 55s.

Covers aims and objects of the Comintern as well as its policy on specific questions. (C) 200

HOWARTH, P. J. F.

Questions in the House: the history of a unique British institution. J. Lane, 1956. pp. 220. 18s.

Detailed history of the questions to the Government from 1721 to 1881. (B) 201

33 ECONOMICS

AMERICAN ECONOMIC ASSOCIATION

Readings of fiscal policy; selected by a committee of the Association. New York, Irwin; London, A. & U., 1955. pp. 596, bibliog. \$5 or 30s. *Series of republished articles on economics, vol. 7.*

• Good bibliography. Attempts to make available to students periodical literature that might otherwise be missed. (C) 202

CLARK, F. LEG., and DUNNE, A. C.

Ageing in industry: an inquiry, based on figures derived from census reports into the problem of ageing under the conditions of modern industry. Nuffield Foundation, 1955. pp. xi, 153, tables, diags. 6s.

(C) 203

INTERNATIONAL BANKING SUMMER SCHOOL, 8th Oxford, 1955 •

International banking and foreign trade, being the lectures delivered at the Eighth International Banking School, Christ Church, Oxford, September, 1955. Europa Publications, for the Institute of Bankers, 1955. pp. 226, tables. 20s.

(B) 204

35 PUBLIC ADMINISTRATION •

ABEL-SMITH, B., and TITMUSS, R. M.

The cost of the National Health Service in England and Wales. C.U.P., 1956. pp. xx, 176, tables, diagrs. 27s. 6d. *National Institute of Economic and Social Research. Occasional papers, no. 18.*

(C) 205

JEFFRIES, Sir C. J.

The Colonial Office; with a foreword by Sir Thomas Lloyd. A. & U., 1956. pp. 223, tables, diagr. 15s. *New Whitehall series, ed. by Sir Robert Fraser.* Standard work on the subject.

(B) 206

WEST MIDLAND GROUP

Local government and central control: a West Midland Group study. Routledge & K. Paul, 1956. pp. 296, maps, tables, diagrs. 28s.

By studying conditions in West Midland region, investigates present situation of local government, and particularly the influence of recent changes on its value as part of the English democratic system.

(A) 207

37 EDUCATION •

ELTON, Sir G., ed.

The first fifty years of the Rhodes Trust and the Rhodes Scholarships, 1903-1953. Oxford, Blackwell, 1955. pp. xiv, 268, plates, tables. 27s. 6d.

Includes records and statistics of Rhodes scholars elected up to and including the year 1949.

(A) 208

MATHEMATICAL ASSOCIATION •

The teaching of mathematics in primary schools: a report prepared for the Mathematical Association for consideration by all concerned with the development of young children. Bell, 1956. pp. ix, 121, tables, diagrs., bibliog. 6s.

Discussion of curriculum and methods.

(B) 209

SARGENT, Sir J. P., ed.

Education and society: some studies of education systems in Europe and America. Batchworth Press, 1955. pp. 176, tables, diagrs., bibliog. 5s. *Background books, special series.*

Includes studies of systems of America, Britain, France, Germany, Holland, Switzerland and Scandinavia. Chapter on America by Dr. I. L. Kandel, and on Britain by Prof. W. O. Lester Smith.

(B) 210

5 NATURAL SCIENCES

SARTON, G. A. L.

Ancient science and modern civilization. Lincoln, Nebraska University Press; London, E. Arnold, 1955. pp. 111. 15s. *Montgomery lectures on contemporary civilization, 1954.*

Three essays: Euclid and his time; Ptolemy and his time; The end of Greek science and culture.

(B) 211

52 ASTRONOMY

VAN DEN BERGH, G.

Periodicity and variation of solar and lunar eclipses. Zwolle, H. D. Tjeenk Willink, 1955. 2 v., illus. *Fl.* 110, or \$30.

Standard work by a leading expert on eclipses.

(C) 212

53 PHYSICS

GREAT BRITAIN. National Physical Laboratory

Boundary layer effects in aerodynamics: proceedings of a symposium held at the National Physical Laboratory on 31st March and 1st April, 1955. H.M.S.O., 1955 (i.e. 1956). pp. iv, 414, illus., tables, diagrs., bibliogs. 30s. 'Typescript.'

(C) 213

SHANKLAND, R. S.

Atomic and nuclear physics. Macmillan, 1955. pp. xvii, 529, illus., tables, diagrs. 45s.

For undergraduate and 1st year graduate students who already possess knowledge of the essential methods and results of classical mechanics and electromagnetism. Based on a course given at Case Institute of Technology.

(B) 214

54 CHEMISTRY

HAUSER, E. A.

Silicic science: a review of the colloid scientific properties and phenomena exhibited by matter composed essentially of the element silicon. New York, Van Nostrand; London, Macmillan, 1955. pp. xii, 188, illus., diagrs., bibliog. \$5, or 37s. 6d.

Author is a leading American authority. Quite well documented.

(B) 215

55 GEOLOGY

551.5 Meteorology

SAUCIER, W. J.

Principles of meteorological analysis. Chicago, University of Chicago Press; London, C.U.P., 1955. pp. 438, illus. \$10 or 75s.

Essentially for the professional meteorologist. Outlines methods used by forecasters in the analysis of basic surface and upper air data.

(C) 216

57 BIOLOGY

572 Anthropology

GLACKEN, C. J.

The Great Loochoo: a study of Okinawan village life. Berkeley, Los Angeles, University of California Press, 1955. pp. xvi, 324, illus., tables, diagrs. \$4.50.

(B) 217

58 BOTANY

NEUHOFF, W.

Die Pilze Mitteleuropas: Band IIb, die Milchlinge (Lactarii); Monographie und Tafelwerk. Bad Heilbrunn, J. Klinkardt, 1956. pp. 248, plates. *DM* 78.

Important work dealing with European species of the fungal genus *Lactarius*.

(C) 218

59 ZOOLOGY

HANSTROM, B., and others, eds.

South African animal life, vol. 1; ed. by B. Hanstrom, P. Brinck and G. Rudebeck. Stockholm, Almqvist & Wiksell, 1955. pp. vi, 518, illus. Sw. Kr. 68. *Results of the Lund University Expedition, 1950-51.*

First of projected series of 8 vols. Contains 6 papers, 2 of general nature, 3 non-entomological, and major work on Whirligig beetles of S. Rhodesia. (B/C) 219

MARSHALL, Sir G. A. K.

The otiorrhynchine curculionidae of the tribe celeuthetini (col.). British Museum, (Natural History), 1956. pp. 134, illus. 35s.

Revision of the genera of the celeuthetini, weevils peculiar to the Pacific area. Key includes 72 genera. Well illustrated. (C) 220

OLIVER, W. R. B.

New Zealand birds. 2nd ed. rev. and enld. Wellington, N.Z., A. H. & A. W. Reed, 1955. pp. 661, illus. 120s.

Summarizes present knowledge of New Zealand birds, and is essential reference work for the systematist and bird observer. Previous ed. 1930. (B) 221

SMITH, S. G., and HOSKING, E. J.

Birds fighting: experimental studies of the aggressive displays of some birds; with field assistance by G. Edwards. Faber, 1955. pp. 128, illus., bibliog. 18s.

Describes the actual observations and records the reactions and postures of birds during aggressive behaviour. (A) 222

TURNER, A. H.

Lepidoptera of Somerset. Taunton, Somerset Archaeological & Natural History Society, 1955. pp. 195. 10s. 6d.

First of a series on the animal life of the county; lists 1,440 species and gives localities in which they are found. (A) 223

6. APPLIED SCIENCES

62 ENGINEERING

621 Mechanical engineering.

LE GRAND, R., ed.

New American machinist's handbook. New York, London, McG.-H., 1955. pp. 1587. 67s. 6d. or \$11.

Though based on earlier editions, essentially a new book: valuable collection of data for the machine shop. (D) 224

621.039 Nuclear engineering

PEACEFUL uses of atomic energy; volume III. Geneva, United Nations Organisation; London, H.M.S.O., 1956. pp. 389. 54s.

First of 15 volumes of the proceedings of the Geneva Conference on the Peaceful Uses of Atomic Energy. (C) 225

SCHULTZ, M. A.

Control of nuclear reactors and power plants. London, New York, McG.-H., 1955. pp. 322, illus. 56s. 6d. or \$7.50. *McGraw-Hill series in nuclear engineering.*

Covers engineering principles and design of control systems for solid fuel heterogeneous reactors. (B) 226

624 Civil engineering

GRAY, C. S., and others

Steel designers' manual; by C. S. Gray, L. E. Kent, W. A. Mitchell and G. B. Godfrey. 2nd ed. Lockwood, 1956. pp. 90s. 50s.

Guide to latest design techniques, and contains general information not otherwise published in any one volume. (C) 227

UNITED STATES. Department of the Interior. Bureau of Reclamation

Concrete manual. 6th ed. Washington, U.S.G.P.O., 1955. pp. xxvi, 491, illus. \$2.50.

Manual for control of concrete construction; includes information on factors influencing strength of concrete, insulation of forms in winter and design of concrete mixes. (B) 228

63 AGRICULTURE

WISHART, J., and SANDERS, H. G.

Principles and practice of field experimentation. 2nd ed. Farnham Royal, Bucks., Commonwealth Agricultural Bureaux, 1955. pp. vii, 133, tables, diags., bibliog. 21s. *Commonwealth Bureau of Plant Breeding and Genetics. Technical communications, no. 18.*

(C) 229

631.3 Agricultural engineering

BAINER, R., and others

Principles of farm machinery; by R. Bainer, R. A. Kepner and E. L. Barger. New York, Wiley; London, C. & H., 1955. pp. 571, illus., bibliog. \$8.75 or 70s.

Written from engineering point of view, details requirements and operating principles of agricultural machinery. Includes useful lists of references to fundamental research. (C) 230

HINE, H. J.

Tractors on the farm: their choice, use and maintenance. 5th ed. Farmer & Stock-Breeder Publications, 1955. pp. 247, illus., tables, diags., bibliog. 15s.

Considerably enlarged since first ed.; stresses the importance of the correct choice and regular maintenance of the tractor. (B) 231

SHELL PETROLEUM CO. LTD.

Know your tractor: a Shell guide. Shell Petroleum, 1956. pp. 356, illus. Gratis. 'Distributed by Shell-Mex & B.P., Ltd., Shell-Mex House, London, W.C.2.'

Details the function and operation of each part of the tractor. Further chapters deal with its electrical equipment, lubrication and maintenance, and the use of tractor as a source of power. (B) 232

65. COMMUNICATIONS AND COMMERCE

651/652 Office Management

AMERICAN MANAGEMENT ASSOCIATION

Electronic data processing in industry; a case book of management experience. New York, the Association; London, Bailey & Swinfen, 1955. pp. 257, illus., tables, diags. \$7.75 or 62s. *Special report no. 3.*

Reports on the use of electronic computers in industry made at a Conference of the A.M.A. (B) 233

WILLIAMS, R. H.

The electronic office. Gee, 1955. pp. 63, plates, diags. 15s.

Short introduction to the use of electronic computers for office work. (B) 234

655 Printing and Publishing

MAKARIUS, T. F.

Operation of the offset press. Irvington, N.J., American Graphic, 1955. pp. 254, illus., tables, diags. \$11.

Though dealing mainly with larger offset lithographic presses, much information is applicable to the smaller office machines. (B) 235

ROBERTS, S. C.

The evolution of Cambridge publishing. Cambridge, C.U.P., 1956. pp. ix, 67, illus. 15s.

Master of Pembroke's Sanders Lectures for 1954. (A) 236

658 Industrial Management

DE WITT, N.

Soviet professional manpower: its education, training, and supply. Washington, National Science Foundation, 1955. pp. xxviii, 400, illus., tables, diags. \$1.25. 'Obtainable from U.S. Government Printing Office.'

Contains outline of Soviet organization, technical education and academic research. (B/C) 237

IRESON, W. G., and GRANT, E. L., eds.

Handbook of industrial engineering and management. New York, Prentice-Hall; London, Bailey & Swinfen, 1955. pp. x, 1203, illus., tables, diags., bibliog. 128s. or \$16.

(B) 238

LONDON. Polytechnic. *Department of Management Studies*

New developments in industrial leadership: a comparative study in four countries; ed. by F. A. Heller. Polytechnic Management Association, 1956. pp. 75. 5s.

A succinct account of the present position in America, Germany, France and this country. (B) 239

ORGANISATION FOR EUROPEAN ECONOMIC CO-OPERATION. Manpower Committee

Shortages and surpluses of highly qualified scientists and engineers in Western Europe. Paris, O.E.E.C.; [London, H.M.S.O.], 1955. pp. 154, tables. 12s. or 600 fr.

Country-by-country review, based on statistics supplied in answer to a questionnaire. (B) 240

66 CHEMICAL TECHNOLOGY

INSTITUTE OF PETROLEUM

Standard methods for testing petroleum and its products. 15th ed. The Institute, 1956. pp. xxiii, 748. 40s.

Contains current I.P. methods for testing petroleum and its products, excluding engine tests for rating fuels. Seven new methods added and several revised since last edition. (B) 241

KEATING, F. H.

Chromium-nickel austenitic steels. Butterworth, in association with Imperial Chemical Industries Ltd., 1956. pp. x, 138, illus., tables, diags. 25s.

Theoretical matters are dealt with in simplified forms, with an adequate presentation of production and fabrication methods. (C) 242

KUBASCHEWSKI, O., and EVANS, E. L.

Metallurgical thermochemistry. 2nd ed. rev. Pergamon Press, 1956. pp. xiv, 410, illus., tables, diagrs. 55s. *Metal physics and physical metallurgy: an international series of monographs, ed. by C. V. Raynor, no. 1.*

Useful tables have been completely revised, and minor alterations and additions have been made in all sections. (C) 243

MRÁK, E. M., and STEWART, G. F., eds.

Advances in food research, vol. VI. New York, Academic Press; London, Academic Books, 1955. pp. 398, illus. 68s. 0 or 72s.

Covers candy manufacture; bacterial spoilage of wines; microbiological problems of meat slaughtering and frozen foods; manufacture of potato granules; thermal destruction of vitamin B and tunnel dehydrators for fruit and vegetables. (B) 244

VON LOESECKE, H. W.

Drying and dehydration of foods. 2nd ed. New York, Reinhold; London, C. & H., 1955. pp. 11, 300, illus., diagrs., bibliog. 60s. or \$7.50.

(C) 245

67 MANUFACTURES

676 Paper

SMITH, V. C.

A brief outline of paper making for paper users. Guildhall Publishing Co., 1955. pp. 42, plates, tables. 5s.

Gives information on processes of paper-making as guide to principles of paper buying. (B) 246

678 Rubber

STERN, H. J.

Practical latex work. 3rd ed. Leicester, Blackfriars Press, 1955. pp. 95, illus., diagrs. 12s. 6d.

Covers wider range of synthetic latices than 2nd ed. (1947). Section on spreading omitted, but emphasis still on dipping. Costing figures have been revised. (B) 247

69 BUILDING

TURNER, H. H.

Architectural practice and procedure: a manual for practitioners and students. 5th ed. rev. Batsford, 1955. pp. xv, 399, illus., plans, tables. 21s.

(B) 248

7 FINE ARTS

76 ILLUSTRATION PROCESSES

GRIFFITHS, T. E.

The rudiments of lithography: with a foreword by R. Darwin. Faber, 1956. pp. 95, illus., diagrs. 12s. 6d.

Shortened and simplified version of his 'The technique of colour printing', 1940. (A) 249

9 HISTORY

WOODMAN, D.

The Republic of Indonesia. Cresset Press, 1955. pp. ix, 444, bibliog. 30s.
History, politics and economics. (B) 250

92 BIOGRAPHY

KÁROLYI, M.

Memoirs of Michael Károlyi: faith with illusion; trans. from the Hungarian by C. Károlyi, with an introduction by A. J. P. Taylor. Cape, 1956. pp. (5), 392, plates. 35s.

Memoirs of a Hungarian aristocrat who refuses to despair of the future of democratic socialism. (B) 251

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allan & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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Aslib Book-List

A MONTHLY LIST
OF RECOMMENDED SCIENTIFIC
AND TECHNICAL BOOKS
WITH ANNOTATIONS

May 1956



Volume 21 Number 5 Nos. 252-313

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

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An index is issued with the last number of each volume.

Editorial Advisory Board:

R. L. Collison (Chairman)
S. C. Goddard
Elaine Shanks

ASLIB BOOK-LIST

Volume 21

Number 5

May 1956

001 GENERAL KNOWLEDGE

001.4 Terminology

ROBERTS, F.

Medical terms; their origin and construction. 2nd ed. Heinemann, 1956. pp. viii, 88. 6s.

Exposition of the principles of medical word formation with lists of useful roots. (B) 252

002 DOCUMENTATION

FÉDÉRATION INTERNATIONALE DE DOCUMENTATION

Directory of photocopying and microcopying services. 2nd ed. rev. The Hague, the Federation, 1955. pp. 50. 4 fl. Publ. no. 278.

Lists document reproduction services in each country throughout the world with details of charges and availability. Also lists main reference institutions. (D) 253

01 BIBLIOGRAPHY

LONDON. University. *Institute of Advanced Legal Studies*

Union list of air law literature in libraries in Oxford, Cambridge and London. The Institute, 1956. pp. iv, 54. 12s. 6d. Publication no. 4.

Covers all types of literature on law, as well as legal texts. Includes holdings of some non-legal libraries. (D) 254

LONDON. University. *Library*

List of periodicals. The Library, 1956. pp. 6, 279. 6s.

Alphabetical arrangement by issuing body or title, with holdings. (D) 255

UNITED STATES. Library of Congress. *Reference Department. Slavic and East European Division*

Geography of Yugoslavia: a selective bibliography; comp. by B. Z. Milojevic. Washington, the Library, 1955. pp. xvii, 79. 70 c. 'Mimeographed.'

Includes works by both Yugoslav and foreign authors, periodical articles as well as books; under broad subject headings with author index. (B) 256

02. LIBRARIANSHIP

ASHWORTH, W., ed.

Handbook of special librarianship and information work. Aslib, 1955. pp. [8], 397, diags., bibliog. 50s. (40s. to members).

13 chapters contributed by specialists. Comprehensive, and with full bibliographies. (B) 257

3 SOCIAL SCIENCES

32 POLITICAL SCIENCE

COUNCIL ON FOREIGN RELATIONS

American agencies interested in international affairs; comp. by R. Savord and D. Wasson. [4th ed.] New York, the Council, 1955. pp. vii, 289. \$3.

Fairly brief entries on the institutions concerned with indexes of subjects and personnel. Official organs of foreign governments are excluded. (D) 258

33 ECONOMICS

BALDWIN, G. B.

Beyond nationalization: the labor problems of British coal. Cambridge, Mass., Harvard University Press; London, O.U.P., 1956. pp. xxiv, 324, plates, maps, tables, diagrs., bibliog. 35s. *Wertheim Fellowship. Publications.*

(A) 259

JAQUES, E.

Measurement of responsibility: a study of work, payment, and individual capacity. Tavistock Publications, 1956. pp. xiii, 146, tables, diagrs. 15s.

(B) 260

34 LAW

MARTIN, A., and EDWARDS, J. B. S.

The changing charter: a study of the reform of the United Nations. Sylvan Press, in association with the David Davies Memorial Institute of International Studies, 1955. pp. 128. 12s. 6d.

Examination of changes which have already taken place in interpretation of U.N. Charter, and discussion of proposals for altering text. (B) 261

37 EDUCATION

BUTTS, R. F.

A cultural history of Western education: its social and intellectual foundations. 2nd ed. New York, London, McG.-H., 1955. pp. xii, 645, illus., bibliog. 49s. or \$6.50. *McGraw-Hill series in education*, ed. by H. Benjamin.

New ed. designed principally for those preparing to enter the educational profession or those wishing to re-evaluate experience in light of history of education. Arrangement basically chronological. (B) 262

KNELLER, G. F.

Higher learning in Britain. Berkeley, California University Press; London, C.U.P., 1955. pp. xii, 301, bibliog. 45s.

(A) 263

NATIONAL EDUCATION ASSOCIATION. *Department of Audio-Visual Instruction*

Audio-visual centers in colleges and universities. Washington, the Association, 1955. pp. 140, illus., plans, tables, diagrs. \$1.50.

Designed for organization of an audio-visual-aids centre for university teaching; also a useful guide on handling these materials in libraries. (B) 264

WAYNE UNIVERSITY. *Detroit*

Proceedings of the first conference on training personnel for the computing machine field held at Wayne University, Detroit, Michigan, June 22 and 23, 1954; ed. by A. W. Jacobson. Detroit, Wayne University Press, 1955. pp. 104. \$5.

Discusses the wider aspects of the implications for education of the automation age. (B) 265

5 NATURAL SCIENCES

INTERNATIONAL FEDERATION FOR MODERN LANGUAGES AND LITERATURES,
Triennial Congress, 6th, Oxford, 1954

Literature and science. Oxford, Blackwell, 1956. pp. xv, 330, bibliog. 45s.

Papers read at the Conference: 3 sections; science and literature; scientific method and literary scholarship; literary history and the history of science. (B/C) 266

51 MATHEMATICS

NEWELL, H. E.

Vector analysis. New York, London, McG.-H., 1956. pp. xi, 216, diagrs. 41s. 6d. or \$6.50. *International series in pure and applied mathematics*.

(C) 267

53 PHYSICS

CADLE, R. D.

Particle size determination. New York, London, Interscience, 1955. pp. xv, 303, illus., tables, diagrs. 40s. or \$5.50. *Interscience manuals*, no. 7.

(C) 268

HUTTEN, E. H.

The language of modern physics; an introduction to the philosophy of science. A. & U., 1956. pp. 278. 21s.

An introduction to the semantic approach to the philosophy of physics. No references. (B/C) 269

JONES, G. O., and others

Atoms and the universe: an account of modern views on the structure of matter and the universe, by G. O. Jones, J. Rothlat and G. J. Whitrow; with a prefatory note by Sir John Cockroft. Eyre & Spottiswoode, 1956. pp. 254, illus., diagrs., bibliog. 25s.

Based on extra-mural university lectures for men and women without scientific experience or training. (A) 270

54 CHEMISTRY

WHELAND, G. W.

Resonance in organic chemistry. New York, Wiley; London, C. & H., 1956. pp. xiii, 846, tables, diagrs., bibliogs. 120s. or \$15.

Largely re-written ed. of well-known book; new chapter dealing with quantum-mechanical techniques especially valuable. (C) 271

55 GEOLOGY

551.5 Meteorology

WATTS, I. E. M.

Equatorial weather, with particular reference to South-east Asia. University of London Press, 1955. pp. xvi, 224, illus., maps, tables, diagrs., bibliog. 25s.

Treats climate from the synoptic aspect, but of value to the climatologist as well as to a potential forecaster. (B) 272

57 BIOLOGY

571 Archaeology

ATKINSON, R. J. C.

Stonehenge. H. Hamilton, 1956. pp. xv, 210, illus., bibliog. 16s.

Reliable and up-to-date account of the monument by Lecturer in Prehistoric Archaeology, Edinburgh. (A/B) 273

HARDEN, D. B., *ed.*

Dark age Britain; studies presented to E. T. Leeds. Methuen, 1956. pp. 270, illus. 63s.

Essays on material of Anglo-Saxon period by well-known writers. (B) 274

OAKLEY, K. P.

Man the tool-maker. 3rd ed. British Museum, 1956. pp. [6], 98, front., illus., bibliog. 4s.

Since 1st ed. (1949) important discoveries in palaeolithic archaeology have necessitated rewriting. Now brought up-to-date, should prove useful primer for students.

(A) 275

59 ZOOLOGY

COMFORT, A.

The biology of senescence. Routledge & K. Paul, 1956. pp. xiii, 257, tables, diags. 25s.

Comprehensive review of the biology of ageing in man and animals, with chapters on nature and criteria, distribution, genetic constitution, growth and mechanisms of senescence.

(C) 276

CORBET, A. S., and PENDLEBURY, H. M.

The butterflies of the Malay Peninsula. 2nd ed. rev. by A. S. Corbet and ed. by N. D. Riley. Edinburgh, London, O. & B., 1956. pp. xi, 537, illus., tables. 105s.

Includes an exhaustive study of most of the extant collections of Malayan butterflies. Thoroughly comprehensive, and unlikely to be superseded.

(C) 277

STEINHAUS, E. A., and SMITH, R. F., *eds.*

Annual review of entomology, vol. 1. Stanford, Calif., Annual Reviews Inc., 1956. pp. x, 466, illus. \$7.50.

First in new series. Aims to include authoritative and concise treatments of subjects of current interest.

(C/D) 278

WEBB, J. E., and ELGOOD, J. H.

Animal classification. Ibadan, Ibadan University Press; London, H. K. Lewis, 1955. pp. ix, 161, illus. 25s.

In two parts; first explaining the principles of classification, the second an annotated classification of invertebrate animals.

(B) 279

6 APPLIED SCIENCES

61 MEDICAL SCIENCE

614 Public Health

INSTITUTE OF PETROLEUM

Refining safety code. The Institute, 1956. pp. 55. 12s. 6d. (looseleaf) or 28s. (in binder).

- Part III of the IP Model Code of Safe Practice in the Petroleum Industry covers the refining operations of the industry. Its recommendations are designed to provide
- a general guide to safe practices and cover all operations.

(C) 280

62 ENGINEERING

KIRBY, R. S., and *others*

Engineering in history; by R. S. Kirby, S. Withington, A. B. Darling and F. G. Kilgour. New York, London, McG.-H., 1956. pp. 530, bibliogs. 64s.

Interesting treatment showing interaction of social development and engineering progress. Broadly based, but some new material on engineering development in America.

(A) 281

MOTT, B. W.

Micro-indentation hardness testing. Butterworth, 1956. pp. viii, 272, illus., tables, diagrs., bibliog. 42s.

Survey of low-load testing and the interpretation of results. Various scales are considered and special attention given to the Vickers and Knoop tests. (C) 282

621 Mechanical

BEGGS, J. S.

Mechanism. New York, London, McG.-H., 1955. pp. xii, 418, illus., tables, diagrs., bibliog. 49s. or \$6.50. *McGraw-Hill series in mechanical engineering*, ed. by R. G. Folsom.

Advanced text intended primarily for college instruction, but useful as a reference book. Though not a design manual, the practical examples have been chosen from current practice. (B) 283

MOLLOY, E., ed.

Marine auxiliary machinery. 2nd ed. Newnes, 1956. pp. 7, 328, illus., tables, diagrs. 35s. *Marine engineering series*.

Short chapter on the Denny-Brown stabilizer has been added. (B) 284

621.3 Electrical

MOLLOY, E., ed.

Testing electrical installations and machines. 5th ed. Newnes, 1956. pp. vii, 200, illus., diagrs. 12s. 6d.

Guide to testing with instruments likely to be available in the workshop of the average installation contractor or maintenance department. (B) 285

SEELY, S.

Electronic engineering. New York, London, McG.-H., 1956. pp. vii, 525, illus., diagrs. 60s. *McGraw-Hill electrical and electronic engineering Series*, ed. by F. E. Terman.

Companion volume of 'Radio electronics'. These two form a revision and extension of author's 'Electron tube circuits'. (C) 286

WENTWORTH, J. W.

Colour television engineering. New York, London, McG.-H., 1956. pp. xix, 520, illus., tables, diagrs. 64s.

Compilation of lecture notes used by the author for an 'after-hours' course in colour television engineering at the Camden, New Jersey, plant of the Radio Corporation of America. (B) 287

621.4 Internal combustion

JONES, C. M.

Diesel operator's guide. New York, London, McG.-H., 1956. pp. xiii, 377, illus., diagrs. 49s.

Essentially practical book primarily for the smaller type of engine; almost entirely based on American manufactures. (C) 288

621.7 Workshop practice

LAUGHNER, V. H., and HARGAN, A. D.

Handbook of fastening and joining of metal parts. New York, London, McG.-H., 1956. pp. 622, illus., diagrs. 112s. 6d.

Comprehensive work dealing with all the usual methods of joining and also adhesive bonding and integral fastenings. Valuable section of about 180 pp. gives classified series of sketches showing methods of fastening and joining. (C) 289

625 Traffic engineering

GREAT BRITAIN. Department of Scientific and Industrial Research. *Road Research Laboratory*

Concrete roads: design and construction. H.M.S.O., 1956. pp. xviii, 404, illus. 25s.

Covers concrete as a roadmaking material, the structure of concrete roads, the methods of construction and the equipment. (C) 297

MATSON, T. M., and others

Traffic engineering; by T. M. Matson, W. S. Smith and F. W. Hurd. McG.-H., 1956. pp. viii, 647, illus. \$12.50 or 94s. *McGraw-Hill series in civil engineering*.

Suitable for students and as a reference book for practising engineers. Deals with characteristics of road users and vehicular traffic, regulation and control of road traffic, administration of traffic engineering, etc. (C) 291

63 AGRICULTURE

BROOKES, P.

Sweet pea growing. Foyle, 1955. pp. 93, illus., tables, bibliog. 2s. 6d.

Foyle's handbooks, ed. by W. A. Foyle.

Short introduction for the amateur grower. (B) 292

EDLIN, H. L.

Trees, woods and man. Collins, 1956. pp. xv, 272, illus., bibliog. 30s. *New naturalist series*, ed. by J. Fisher and others.

Presents tree in its natural setting, deals with man's influence on the forest, includes fourteen chapters on particular trees, a short glossary and bibliography. (A) 293

GOOLD-ADAMS, D.

The unheated greenhouse. Collingridge, 1955. pp. 176, illus. 18s.

Suitable species, with instructions for cultivation; includes over 200 herbaceous plants, flowering shrubs and bulbs. (B) 294

MCQUOWN, F. R.

Pinks: selection and cultivation. McGibbon & Kee, 1955. pp. 176, illus., bibliog. 10s. 6d.

Includes history, cultivation, propagation and hybridising in a book rich in observation, based on long experience of growing this genus. (B) 295

POULSEN, S.

The roses; trans. by C. C. McCallum. McGibbon & Kee, 1955. pp. 160, illus. 12s. 6d.

First English version of a work already recognised as authoritative in Europe. (B) 296

WELLS, J. S.

Plant propagation practices. New York, London, Macmillan, 1955. pp. viii, 344, illus., tables, bibliog. \$7.50 or 42s.

Records experiments made in U.S.A. with new methods including 'mist spraying', hormones, etc. Treatment given for 18 plants basic to nurserymen—azaleas, camellias, etc. (B) 297

65 COMMUNICATIONS AND COMMERCE

651/652 Office management

BROWN, R. H.

Office automation; integrated and electronic data processing. New York, Automation Consultants, 1955. pp. xviii, 285. \$12.50.

Loose-leaf; deals with the equipment, its applications and the social implications of its use. Supplements available for \$25 p.a. (B) 293

NATIONAL RECORDS MANAGEMENT COUNCIL, and
NEW YORK. University. *Graduate School of Business Administration*

Proceedings of the second annual conference on records management, September 19-20, 1955; ed. by H. W. MacDowell. New York, the School, 1955. pp. 79. \$2.

Concentrates on new developments in the office field, including electronics and protection against atomic attack. (B) 299

OFFICE APPLIANCE AND BUSINESS EQUIPMENT, TRADES ASSOCIATION

The manual of modern business equipment. Macdonald & Evans for the Association, 1956. 4 vol., illus., diags. 4s. 6d. per vol. Part 5: Typewriting machines; Part 6: Reproduction processes, part 1 (duplicators); Part 7: Safes, strongrooms and fire resisting equipment; Part 8: Loose-leaf binders, hand-posted related records, and machine accounting ancillary equipment.

Fairly brief accounts of the principles of equipment, with lists of British makers. (B) 300

655 Printing. Publishing. Book trade.

JOHNSON, E. D.

Communication: a concise introduction to the history of the alphabet, writing, printing, books and libraries. New Brunswick, N.J., Scarecrow Press; [London, Bailey & Swinfen], 1955. pp. 211. \$4 or 36s.

Mainly concerned with the history of printing, with only short chapters on history of writing and libraries. (B) 301

658 Industrial management

LANHAM, E.

Job evaluation. New York, London, McG.-H., 1956. pp. ix, 404, illus., tables, bibliog. 45s.

Deals with grading of wages by means of job evaluation; author draws on 10-15 years' experience. (C) 302

66 CHEMICAL TECHNOLOGY

WILSON, E. D., and RIES, H. C.

Principles of chemical engineering thermodynamics. New York, London, McG.-H., 1956. pp. ix, 376, tables, diags. 56s. 6d. or \$7.50. *McGraw-Hill series in chemical engineering*, ed. by S. D. Kirkpatrick.

(C) 303

67 MANUFACTURES

677 Textiles

BRITISH STANDARDS INSTITUTION

Methods of test for textiles. Rev. ed. The Institution, 1956. pp. 461, illus., tables, diags. 30s. *British standards handbooks*, no. 11.

Reference book providing particulars of all essential tests required in the textile laboratory. (C) 304

LOMAX, J. W.

Textile testing. 3rd ed. L.G., 1956. pp. xv, 218, illus., tables, diags. 30s.

Includes newer synthetic fibres and recently-published methods of test. Good general book for use in a mill laboratory. (B) 305

681 Fire mechanisms

HICKMAN, R. E. B.

Magnetic recording handbook: theory, practice and servicing of domestic and professional tape and wire recorders. Newnes, 1956. pp. vii, 176, illus., tables, diags., bibliog. 21s.

(B) 306

7 FINE ARTS

ALLSOPP, H. B.

A general history of architecture: from the earliest civilizations to the present day. Pitman, 1956. pp. xiv, 233, illus., maps, plans, diags. 40s.

First volume of a new history of architecture written from a modernist viewpoint.

(B) 307

72 ARCHITECTURE

749 Furniture

YARWOOD, D.

The English home: a thousand years of furnishing and decoration. Batsford, 1956. pp. xxix, 393, illus., bibliog. 45s.

Well-illustrated survey of furniture including silver and china. Should be of interest to the informed general reader as well as to the student.

(B) 308

77 PHOTOGRAPHY

LONGMORE, T. A.

Medical photography: radiographic and clinical; with a foreword by Brig. D. B. McGrigor. 5th ed. Focal Press, 1955. pp. 990, illus., tables, diags. 60s.

Considerably revised. Sections on colour and flash have been re-written.

(B) 309

9 HISTORY. GEOGRAPHY

91 GEOGRAPHY

BUCHANAN, K. M., and PUGH, J. C.

Land and people in Nigeria: the human geography of Nigeria and its environmental background: with a contribution by Prof. A. Brown and a foreword by Prof. L. D. Stamp. University of London Press, 1955. pp. xii, 252, illus., maps, tables, diags. 35s.

Detailed geography of Nigeria: includes exceptionally thorough studies of human geography, natural resources and industry.

(B) 310

COOK, J.

The journals of Captain James Cook on his voyages of discovery; [edited from the original manuscripts by J. C. Beaglehole with the assistance of J. A. Williamson, J. W. Davidson and R. A. Skelton]; Vol. 1, The voyage of the 'Endeavour' 1768-1771. Cambridge, C.U.P. for the Hakluyt Society, 1955. pp. cclxxiv, 648, illus., maps. 80s. *Hakluyt Society. Extra series, no. 34.*

First of 4 vols. Fine edition from original MSS of one of the classics of exploration.

Appendices reproduce documents other than Cook's connected with the expedition.

(B) 311

COOK, J., and others

Charts and views drawn by Capt. J. Cook and his officers and reproduced from the original manuscripts; ed. by R. A. Skelton. Cambridge, C.U.P. for the Hakluyt Society, 1955. 55 separate sheets with index. 50s.

Portfolio to previous entry.

(B) 312

92 BIOGRAPHY

SIMON, O.

Printer and playgrund: an autobiography. Faber, 1956. pp. xv, 156, front., illus. 27s. 6d.

Author was editor of first four issues of *The Fleuron*, founder and editor of *Signature*, and for 30 years has influenced finer craftsmanship and good design in printing.

(B) 313

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin
C. & H.: Chapman and Hall
C.U.P.: Cambridge University Press
H.M.S.O.: Her Majesty's Stationery Office
L.G.: Longmans, Green
McG.-H.: McGraw-Hill
O. & B.: Oliver and Boyd
O.U.P.: Oxford University Press.

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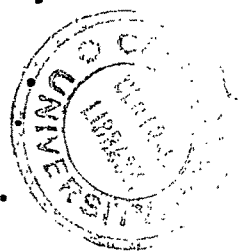
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Aslib Book-List

A MONTHLY LIST
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WITH ANNOTATIONS

June 1956



Volume 21

Number 6

No§. 314-375

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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ASLIB BOOK-LIST

Volume 21

Number 6

June 1956

01 BIBLIOGRAPHY

BATTELLE MEMORIAL INSTITUTE

Abstracts of the literature on semiconducting and luminescent materials and their applications. 1954 issue. New York, Wiley; London, C. & H., 1955. pp. viii, 200. \$5 or 40s.

Classified arrangement, based mainly on materials, with author and subject indexes. Abstracts are fairly full.

(D) 314

NATIONAL BOOK LEAGUE

Education book guide. 1956 ed. Councils & Education Press, 1956. pp. [6], 110. 12s. 6d.

Classified list of school textbooks and books for school libraries published in 1955.

(D) 315

UNITED STATES. Armed Forces Medical Library. *Reference Division*

The structure, composition and growth of bone, 1930-1953; comp. by M. C. Spencer and K. Uhler. Washington, the Library, 1955. pp. x, 190. \$1. 'Obtainable from U.S. Government Printing Office.'

Classified arrangement with author index. References are given to published abstracts.

(D) 316

WADE, W. F., and KEMLER, E. N.

Automatic control bibliography. Spring Park, Minn., Summary Reports, 1955. pp. [4], 331. [127s. 6d.]

Covers the American and British literature since 1900—books and periodical articles. Main arrangement is by author, but includes selective classified lists. Brief abstracts are given.

(D) 317

02 LIBRARIANSHIP

BRYON, J. F. W., and others

Library co-operation in the North West; a report. Manchester, North-Western Regional Library System, 1956. pp. [4], 36, tables. 1s. 6d. 'Additional authors: L. L. Arden, G. B. Cotton, A. Glencross.'

Contains suggestions on the practice of co-operating libraries, as well as recommendations for improvements and extensions of the Regional Bureau service.

(B) 318

CHICAGO. University. *Graduate Library School*

The future of the book: implications of the newer developments in communication: papers presented before the twentieth annual conference, June 20-26, 1955; ed. by L. Asheim. Chicago, the University, 1955. pp. v, 105. \$3.75. 'Papers originally published in *Library Quarterly*, October, 1955.'

Papers cover both new forms of publication and book production and new techniques for information retrieval.

(B) 319

06 SOCIETIES AND INSTITUTIONS

069 Museums

CoX, T.

Pictures. Museums Association, 1956. pp. 33, illus. 3s. 6d. *Handbook for museum curators, Part B, Sections 1 and 2.*

(B) 320

3 SOCIAL SCIENCES

32 POLITICAL SCIENCE

BATHURST, M. E., and SIMPSON, J. L.

Germany and the North Atlantic community. Stevens, 1956. pp. 217. 35s. *Library of World Affairs, no. 29.*

Up-to-date survey of questions of international law relating to German problem.

(B) 321

33 ECONOMICS

ALTON, T. P.

Polish postwar economy. New York, Columbia University Press; London, O.U.P., 1956. pp. xvi, 330. \$5.75 or 45s.

An enquiry focussed on development after World War II, especially after 1946; for purposes of background and comparison, some developments up to 1939 included.

(B) 322

DEWAR, M.

Labour policy in the U.S.S.R., 1917/1928. Royal Institute of International Affairs, 1956. pp. 286. 45s.

Based entirely on official documents.

(C) 323

HIDY, R. W., and HIDY, M. E.

Pioneering in big business, 1882-1911; history of Standard Oil Co., New Jersey. New York, Harper, 1956. pp. xxx, 839. \$7.50.

(A) 324

MAIN, O. W.

The Canadian nickel industry: a study in market control and public policy. Toronto, University of Toronto Press, 1955. pp. x, 168. \$3.25.

'... Canadian studies in Economics, vol. IV, sponsored by the Canadian Social Science Research Council.'

(B) 325

NATIONAL INSTITUTE OF ECONOMIC AND SOCIAL RESEARCH

A classified list of large companies engaged in British industry. The Institute, 1956. pp. 39, tables. 5s.

(D) 326

35 PUBLIC ADMINISTRATION

AMERICAN ASSOCIATION FOR PUBLIC INFORMATION, EDUCATION AND RESEARCH

The businessman's guide to Government information and advice; ed. by S. S. Cohen. Washington, the Association, 1955. pp. 97, tables. \$2.

Combines a select bibliography of U.S. Government publications and a directory of statistical personnel in U.S. Government departments.

(D) 327

36 WELFARE AND INSURANCE

368 Insurance

DINSDALE, W. A.

Principles and practice of accident insurance: Part I: General principles; Part 2: General practice; Part 3: Application of principles and practice. 4th ed. Buckley Press, 1956. pp. xii, [397]. 49s.

Intended especially for examination students, the book has special typographical lay-out whereby the most important points are emphasized and minimum information marked off. (B) 328

DOVER, V.

Analysis of marine and other insurance clauses. 7th ed. Witherby, 1956. pp. vii, 527. 42s.

Useful both to student and to experienced practitioner. (B) 329

37 EDUCATION

COGGIN, P. A.

Drama and education: an historical survey from Ancient Greece to the present day. Thames & Hudson, 1956. pp. vii, 327, bibliog. 21s.

Describes the development of the present-day use of drama as a means of education, and its educational value. (B) 330

GREAT BRITAIN. Ministry of Education

Evening institutes. H.M.S.O., 1956. pp. vi, 48, plates, tables. 3s. Pamphlet no. 28.

Survey of activities and students. (A) 331

RAWSON, W.

The Werkplaats adventure: an account of Kees Boeke's great pioneer comprehensive school: its methods and psychology. V. Stuart, 1956. pp. [4], 153, illus. 12s. 6d.

(B) 332

4 PHILOLOGY

413 Dictionaries

AVIS, F. C.

The bookman's concise dictionary. F. C. Avis, 1956. pp. 325. 18s.

Covers library and bibliographical subjects, and also includes many literary terms and other information useful to the cataloguer. Entries very brief. (D) 333

PACKAGING INSTITUTE INC.

Glossary of packaging terms: standard definitions of trade terms commonly used in packaging. 2nd ed. New York, the Institute, 1956. pp. 320. \$6.75.

Greatly enlarged since first ed. Covers all aspects of packaging. (D) 334

5 NATURAL SCIENCES

51 MATHEMATICS

JONES, B. W.

The theory of numbers. Constable, 1956. pp. xi, 143, tables, diags., bibliog. 24s.

Good elementary introduction. (B) 335

RIESZ, F., and SZ.-NAGY, B.

Functional analysis. Trans. from the 2nd French ed. by L. F. Boron. London, Glasgow, Blackie, 1956. pp. xii, 468, bibliog. 65s.

Translation of the classic work on linear operator theory. (C) 336

VAJDA, S.

The theory of games and linear programming. Methuen, 1956. pp. 106, tables, diagrs., bibliogs. 8s. 6d. *Monographs on physical subjects.*

Brief, but comprehensive account of this recently developed field. (B) 337

52 ASTRONOMY

SCHRÖDINGER, E.

Expanding universes. Cambridge, C.U.P., 1956. pp. viii, 93, diagrs., bibliog. 17s. 6d.

Largely concerned with the de Sitter universe. (C) 338

53 PHYSICS

LAPP, R. E., and ANDREWS, H. L.

Nuclear radiation physics. 2nd ed. Pitman, 1955. pp. xi, 532, illus., tables, diagrs., bibliog. 50s.

Completely revised edition of an introductory work on the fundamental aspects of nuclear physics, which includes material of interest to the nuclear engineer and radiation biologist. (B) 339

UNITED KINGDOM ATOMIC ENERGY AUTHORITY. Atomic Energy Research Establishment, Harwell

Electromagnetically enriched isotopes and mass spectrometry: Proceedings of the Conference held in the Cockcroft Hall, Harwell, 13-16 September, 1955; ed. by M. L. Smith. Butterworth, 1956. pp. xvi, 272, illus., tables, diagrs., bibliogs. 45s.

Describes the design and use of electromagnetic separators for producing stable isotopes, with papers on ion sources and on the utilization of stable and radioactive isotopes. (C) 340

54 CHEMISTRY

SCHUMB, W. C., and others

Hydrogen peroxide; by W. C. Schumb, C. N. Satterfield and R. L. Wentworth. New York, Reinhold; London, C. & H., 1956. pp. xiii, 759, illus., tables, diagrs., bibliogs. \$16.50 or 132s. *American Chemical Society monograph, no. 128.*

Comprehensive review of the chemistry, reactions and uses of hydrogen peroxide. (C) 341

55 GEOLOGY

ARKELL, W. J.

Jurassic geology of the world. London, Edinburgh, O. & B., 1956. pp. xvii, 806, plates, illus., maps, tables, diagrs., bibliog. 105s.

An important reference manual, arranged geographically, with a comprehensive bibliography and excellent illustrations. (C) 342

PHYSICS and chemistry of the earth; ed. by L. H. Ahrens, K. Rankama and S. K. Runcorn. Pergamon Press, 1956. pp. vii, 317, tables, diagrs., bibliogs. 55s. *Progress series, vol. 1.*

First volume of an annual publication providing up-to-date survey of international progress in geophysics and geochemistry. (C) 343

59 ZOOLOGY

BARNES, H. F.

Gall midges of economic importance. Vol. 7, Gall midges of cereal crops. C. Lockwood, 1956. pp. 261, illus., diagrs., bibliog. 21s.

Covers wide range of species. Well illustrated and includes indexes of generic, specific and popular names of gall midges, an index of plants and full bibliography.

(B) 344

6 APPLIED SCIENCES

61 MEDICINE

614 Public health

JAMES, B.

The food and drugs handbook: being a guide to the Food and Drugs Act, 1955. Hadden, Best, 1955. pp. xlv, 221, tables. 25s.

(B) 345

62 ENGINEERING

621.3 Electrical engineering

TERMAN, F. E.

Electronic and radio engineering. 4th ed. New York, London, McG.-H., 1955. pp. vii, 1078. \$12.50 or 71s. 6d. *McGraw-Hill electrical and electronic engineering series.*

Reference book summarizing in easily understandable terms basic principles and techniques.

(B) 346

621.4 Internal combustion

ASSOCIATION FOR APPLIED SOLAR ENERGY

Applied solar energy research: a directory of world activity and bibliography of significant literature; ed. by E. J. Burda. Stanford, Calif., Stanford Research Institute, for the Association, 1955. pp. ix, 298. \$4.

Directory arranged by country: gives names of research workers and descriptions of fields investigated. Bibliography arranged alphabetically by authors with a topic index. Short abstracts for most entries.

(D) 347

COMBUSTION INSTITUTE

Fifth symposium (international) on combustion. New York, Reinhold; London, C. & H., 1955. pp. xxvi, 802, illus. \$15 or 120s.

Proceedings of the symposium on combustion in engines and combustion kinetics held at the University of Pittsburgh, August 30-September 3, 1954.

(B) 348

HUMPHRIES, J.

Rockets and guided missiles. Benn, 1956. pp. 232, illus., diagrs. 20s.

A comprehensive survey of modern rocket research and review of the potentialities of the guided missile.

(B) 349

621.9 Machine tools

TEGART, W. J. MCG.

The electrolytic and chemical polishing of metals in research and industry. Pergamon Press, 1956. pp. x, 129, illus., diagrs., bibliogs. 30s.

Concise survey of literature on the subject, combined with results of author's practical experience.

(B) 350

624 Civil engineering

SMOLIRA, M.

Analysis of structures. Concrete Publications, 1955. pp. 175, illus. 18s.

* Analysis of statically indeterminate structures by the deformation method. (C) 351

628 Sanitary engineering

AMERICAN SOCIETY OF REFRIGERATING ENGINEERS

Air conditioning data book: design volume, 1955/56. 9th ed. New York, the Society, 1955. pp. 900, illus. \$10.

New edition of a book giving fundamental data and basic engineering information concerned with the theory and principles of the design of refrigeration and air conditioning equipment and systems. (C) 352

CALIFORNIA. State Water Pollution Control Board

An investigation of the efficacy of submarine outfall disposal of sewage and sludge. Sacramento, Calif., the Board, 1956. pp. 154. \$2. *Publication no. 14.*

Report on available information on the disposal of sewage and sludge by discharge to the sea, with recommendations for future investigations. (C) 353

629.113 Automobile engineering

MOLLOY, E., ed.

Automobile engineer's reference book; intended for automobile designers, draughtsmen and production engineers; gen. ed., E. Molloy, consulting ed., G. B. Lanchester. Newnes, 1956. pp. [1568], illus., tables, diags., bibliog. 80s.

Standard reference book for engineers engaged in design, testing and production of automobiles. (B/C) 354

629.12 Shipbuilding

SHIP and boat builder annual review, 1956.

J. Trundell, 1956. pp. 388, illus. 40s.

Contains a number of articles on developments in small boat building and equipment that have occurred during the year. (D) 355

63 AGRICULTURE

MURRAY, K. A. H.

Agriculture: history of the second world war. L.G., 1956. pp. xii, 422. 30s.

Official history of British agriculture. (B) 356

631.3 Agricultural engineering

INSTITUTION OF BRITISH AGRICULTURAL ENGINEERS

* Year book, 1955-1956. 2nd ed. The Institution, 1956. pp. 88. 5s. (gratis to members of the Institution).

Membership booklet of the Institution, together with subject index to all papers published between 1947-55 and summaries of the papers given between November, 1955-February, 1956. (D) 357

MCCOLLY, H. F., and MARTIN, J. W.

Introduction to agricultural engineering. New York, London, McG.-H., 1956. pp. x, 553, illus., maps, tables, diags., bibliog. 56s. 6d. or McGraw-Hill publications in agricultural engineering, ed. by Q. C. Ayres.

Comprehensive book including the basic aspects of agricultural engineering at an elementary level. (B) 358

631.4 Soil

BAVER, L. D.

Soil physics. 3rd ed. New York, Wiley; London, C. & H., 1956. pp. xvii, 489, illus., tables, diags., bibliog. 62s.

(C) 359

LAWRENCE, W. J. C.

Soil sterilization. A. & U., 1956. pp. 175, plates, tables, diags., bibliog. 18s.

Useful for small- and large-scale growers, students, etc. Contains new information resulting from investigations at the John Innes Horticultural Institution. (B) 360

632 Pests

GUNTHER, F. A., and BLINN, R. C.

Analysis of insecticides and acaricides: a treatise on sampling, isolation and determination, including residue methods. New York, London, Interscience, 1955. pp. xi, 696, illus. \$14 or 12s. *Chemical analysis series, vol. 4.*

Describes problems of field sampling for insecticidal residues and analytical procedures for determining approximately 90 insecticides and acaricides. (C) 361

635 Horticulture

THOMAS, D. G.

The gladiolus for garden and exhibition. Collingridge, 1955. pp. 94, illus. 15s.

Notes on some of the best modern varieties, and a list of selected varieties are included in this important work on the subject. (B) 362

636 Stock

ASDELL, S. A.

Cattle fertility and sterility. Churchill, 1955. pp. ix, 227, illus. 42s.

Summarizes recent advances in knowledge of the physiology of reproduction in cattle. Expansion of three lectures given to University of London by Professor of Animal Husbandry of Cornell University. (C) 363

BLAKE, N.

The pioneering pig. Faber, 1956. pp. 102, illus. 12s. 6d.

Practical recommendations on pig-farming on marginal land. (A) 364

637 Dairying

DAVIS, J. G.

Laboratory control of dairy plant. 9 Gough Square, London, E.C.4, Dairy Industries, 1956. pp. xii, 395, illus., tables, diags., bibliog. 30s.

Describes tests now accepted as an essential part of modern plant control to ensure compliance with present regulations and maximum efficiency in management. 2nd in series covering all laboratory methods in the dairy industry. (C) 365

65 COMMUNICATIONS AND COMMERCE

658 Industrial management

FOGARTY, M. P.

Personality and group relations in industry. L.G., 1956. pp. ix, 341, tables, diags., bibliog. 30s.

Serious and deeply analytical review of the underlying 'substance' of industrial relations in terms of the motive forces that activate people when associated in common tasks or settings. (B) 366

HOWARD, G. W.

Common sense in research and development management. New York, Vantage Press, 1955. pp. 104, tables, diags. \$2.75.

Survey of management problems in applied research in the U.S., both government and private work. Includes material on staff and professional development. (B) 367

66 CHEMICAL TECHNOLOGY

LEVIN, E. M., and others

Phase diagrams for ceramists; by E. M. Levin, H. F. McMurdie and F. B. Hall. 5th ed. New York, American Ceramic Society, 1956. pp. 286, diags. \$10.

New edition of well-known book. Contains over 100 phase diagrams.

(C) 368

669 Metallurgy

MOSS, A. A.

The identification of metals. Museums Association, 1956. pp. 8. 3s. *Handbook for museum curators, Part B, Section 8.*

(B) 369

67 MANUFACTURES

674 Timber

GREGUSS, P.

Identification of living gymnosperms on the basis of xylography. English ed. Budapest, Akademiai Kiado, 1955. pp. 263, plates. 105s.

Describes manner in which, by virtue of their anatomical characteristics, wood sections and cuttings are classed into families as a preliminary to their final identification on the authority of generic and specific characters.

(C) 370

SCHWANKL, A.

What wood is that? A guide to the identification of home-grown and imported timbers, with 40 actual timber samples; trans. [from the German] and ed. by H. L. Edwin. Thames & Hudson, 1956. pp. xv, 164, illus., tables, diags. 25s.

An introductory guide to timber identification.

(A) 371

676 Paper

WILLIAMSON, H.

Paper and paperboard making. Chicago, Fritz Publications, 1955. pp. 371, illus. \$6.

Covers all phases of stock preparation and sheet formation, explaining the underlying principles of papermaking. No index.

(B) 372

679.5 Plastics

COUZENS, E. G., and YARSEY, V. E.

Plastics in the service of man. Harmondsworth, Penguin Books, 1956. pp. 315, illus., tables, diags., bibliog. 3s. 6d.

Reviews, for the general reader, the entire basis of the plastics industry, with especial emphasis on end use.

(A) 373

9 HISTORY

92 BIOGRAPHY

URWICK, L., ed.

The golden book of management. Newnan, Neame, 1956. pp. xx, 298, illus. 35s.

Historical record of the life and work of 70 pioneers.

(A) 374

930.26 Archaeology

CHILDE, V. G.

Piecing together the past: the interpretation of archaeological data. Routledge & K. Paul, 1956. pp. vii, 176, illus., maps, table. 18s.

An objective analysis of the real aims of archaeology.

(A/B) 375

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

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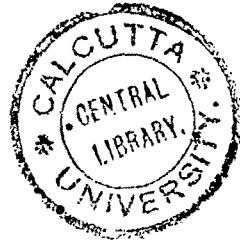
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July 1956

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In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

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001 GENERAL KNOWLEDGE

001.8 Methods of intellectual work

INDUSTRIAL RESEARCH, 1956-1957.

3rd ed. advisory editor, P. Dunsheath. Todd Publishing Group; Harrow, 1956. pp. 444, illus. (port.), tables, bibliog. 63s.

Standard reference work, listing and describing organizations of all kinds, in the field of industrial research. (D) 376

TUTTLE, R. E., and BROWN, C. A.

Writing useful reports: principles and applications. New York, Appleton, 1956. pp. xiv, 635, facsimis., tables, diagrs. \$4.50.

Based on university courses. Aims at teaching the student to evaluate the type of report needed to meet each situation. (B) 377

002 DOCUMENTATION

PERRY, J. W. and others

Machine literature searching, by J. W. Perry, A. Kent and M. M. Berry. New York, London, Interscience, 1956. pp. xi, 162, diagrs. \$4 or 32s.

Chapters I to IX reprinted from *American Documentation*. A major work on the theory of mechanical selection, with special reference to coding and classification. (A) 378

01 BIBLIOGRAPHY

MICHIGAN. University, and FUND FOR PEACEFUL ATOMIC DEVELOPMENT

A bibliography of current materials dealing with atomic power and related atomic energy subjects for non-specialists and lay persons; comp. by J. E. Boswell. Detroit, The Fund, 1955. pp. [8], 233, mimeographed. \$1.25.

Arranged index form, subdivided by subject. Author index to the section on books, and list of journals covered. No annotations. (D) 379

SCHÜTTE, K.

Index of mathematical tables from all branches of sciences. München, Oldenbourg, 1955. pp. 143. Dm. 14.50.

Text in English and German. Classified arrangement with indexes of authors and institutes. (D) 380

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Index translations: international bibliography of translations, 7. Paris, Unesco; [London, H.M.S.O.], 1956. pp. 585, fable. 3,000fr., \$12 or 60s.

(D) 381.

WOLSELEY, R. E.

The journalist's bookshelf: an annotated and selected bibliography of United States journalism. 6th ed. Chicago, Quill and Scroll Foundation, 1955. pp. 212. \$5.

Includes only books. Classified arrangement with authors and title indexes. Items are annotated. (D) 382

02 LIBRARIANSHIP

ASSOCIATION OF ASSISTANT LIBRARIANS

The First Professional Examination; by E. V. Corbett. London, the Association, 1956. pp. 35. 3s. (2s. 6d. to members). *The A.A.L. guides to the Library Association examinations; under the general editorship of A. J. Walford.*

(A) 383

MEDICAL LIBRARY ASSOCIATION

Handbook of medical library practice, with a bibliography of the reference works and histories in medicine and the allied sciences. 2nd ed., rev. and enl.; ed. by J. Doe and M. L. Marshall. Chicago. American Literary Association, 1956. pp. xv, 601, tables, diagrs. \$10.

Covers all aspects of medical library work and literature searching in medicine. In this edition new chapters on the Medical Library Association, photoduplication and public relations have been added, and the bibliography doubled.

(B) 384

SCRIPTURE, E., and GREER, M. R.

Find it yourself: a brief course in the use of books and libraries. New York, H. W. Wilson, 1955. pp. 64, illus., facsimis. 40c.

(A) 385

WILSON, L. R., and TAUBER, M. F.

The university library: the organization, administration and functions of academic libraries. 2nd ed. New York; Columbia University Press; [London, O.U.P.], 1956. pp. xvi, 641, illus., tables, diagrs. \$7.50 or 60s. *Columbia University studies in library service, no. 8.*

(B) 386

3 SOCIAL SCIENCES

31 STATISTICS

WALLIS, W. A., and ROBERTS, H. V.

Statistics: a new approach. [Glencoe] Illinois, Free Press, 1956. pp. 646. \$6.

(B) 387

33 ECONOMICS

ECONOMIST. Intelligence Unit

The businessman's guide to Britain, 1956. Chatto and Windus, [1956]. pp. 3,155, maps, tables, diagrs. 10s. 6d.

Maps on end papers.

(B) 388

GREAT BRITAIN. Ministry of Labour and National Service. *Cost of Living Advisory Committee*

Report on proposals for a new index of retail prices. H.M.S.O., 1956. pp. iv, 24, table. 1s. 6d. *Cmd. 9710.*

(B) 389

SCOTT, J. D., and HUGHES, R.

The administration of war production. H.M.S.O., L.G., [1956]. pp. xii, 544, diagrs. 37s. 6d. *History of the Second World War, United Kingdom civil series, war production series, ed. by M. M. Postan.*

The control of armament production during the war.

(A) 390

37 EDUCATION

ASSOCIATION OF ASSISTANT MISTRESSES IN SECONDARY SCHOOLS

Memorandum of the teaching of English. University of London Press [1956]. pp. 71, tables. 3s.

Recommendations for girl's grammar schools.

(B) 391

DINSDALE, W. A.

Insurance education past and present. 2nd ed. Stone & Cox, 1956. pp. tables. 3s. 6d.

Deals with tuition, advanced studies and the effect of modern educational problems. Previous ed. 1948. (B) 392

GREAT BRITAIN. Ministry of Education

Music in schools. H.M.S.O., 1956. pp. iv, 44, 8 plates. 2s. Pamphlets—no. 27.

(A) 393

GREAT BRITAIN. Ministry of Education, and Scottish Home Department.

Technical education. H.M.S.O., 1956. pp. 44, tables. 1s. 6d. Cmd. 9703.

(A) 394

PEEL, E. A.

The psychological basis of education. Edinburgh, London, O. & B., 1956. pp. vii, 303, tables, diags. 20s.

An introduction to modern psychological theory as applied to education, with particular reference to the theory of learning and differential psychology. (B) 395

ROUSSEAU, J. J.

Émile for today: the 'Émile' of J. J. Rousseau selected, translated and interpreted by W. Boyd. Heinemann, 1956. pp. vi, 198, 10s. 6d. Education series, ed. by V. Mallinson and others.

A new translation by Prof. Boyd. He has abridged the text by cutting out the long discursive passages, and has added a commentary. (A) 396

5 NATURAL SCIENCES

SARTON, G.

The appreciation of ancient and medieval science during the Renaissance (1450–1600). Philadelphia, Pennsylvania U.P.; London, O.U.P., 1955. pp. xvii, 234, illus., tables, diags., bibliog. 40s. or \$3.

Revised text of the Rosenbach Lectures 1952–53 at the University of Pennsylvania. (A, B) 397

51 MATHEMATICS

PATTERSON, E. M.

Topology. Edinburgh, London, O. & B.; New York, Interscience, 1956. pp. viii, 128, illus., diags., bibliog. 8s. 6d. University mathematical texts, ed. by A. C. Aitken and D. E. Rutherford.

An elementary text for undergraduates first course. Gives topological concepts, and that of topological space is approached through those of Euclidean and metric spaces. The concepts of homotopy and homology are discussed. (B) 398

52 ASTRONOMY

ALLER, L. H.

Gaseous nebulae. C. & H., 1956. pp. 322, plates, tables, diags., bibliog. 63s. International astrophysics series, ed. by M. A. Ellison and A. C. B. Lovell, vol. 3.

(C) 399

527 Navigation

BREED, J. B.

Navigation without numbers. Faber, 1956. pp. 119, illus., diags. (some col.). 21s.

Originally published, New York, Norton, 1955. Suitable for yachtsmen and others who have not had an extensive mathematical training. It shows by means of two-colour diagrams how the basic triangle of celestial navigation may be solved graphically. (A) 400

53 PHYSICS

FUNG, Y. C.

An introduction to the theory of aeroelasticity. New York, Wiley; London, C. & H., 1955. pp. xi, 490, illus., tables, diagrs., bibliog. 84s. or \$10.5C. *Galcit aeronautical series.*

(B) 401

INTERNATIONAL SYMPOSIUM ON CAVITATION IN HYDRODYNAMICS, 1st, National Physical Laboratory, 1955

Cavitation in hydrodynamics, H.M.S.O., 1956. pp. [508], front., illus., tables, diagrs., bibliog. 30s.

The report of a meeting held at the N.P.L. in September, 1955, at which 21 papers were read. Typewriter script.

(B) 402

UNITED KINGDOM ATOMIC ENERGY AUTHORITY. Atomic Energy Research Establishment, Harwell

Electromagnetically enriched isotopes and mass spectrometry: proceedings of the Conference held in Cockcroft Hall, Harwell, 13th-16th September, 1955; ed. by M. L. Smith. Butterworth, 1956. pp. xvi, 272, illus., tables, diagrs., bibliog. 45s.

Some 30 papers, those concerned with the design and performance of electromagnetic separators containing material which was, until recently, classified by the American and British authorities.

(C) 403

55 GEOLOGY

GRANT, M. H.

The marbles and granites of the world. [4 Launceston Place, London, W.8, R. Lance] 1955. pp. 158, tables, bibliog. 60s.

A catalogue of marbles and granites with their locality and characteristics.

(B) 404

59 ZOOLOGY

BECHYNE, J.

Beetles; trans. from the German and ed. by C. M. F. Von Hayek. Thames & Hudson, 1956. pp. 158, col. front., illus., 5 col. plates, diagrs., bibliog. 18s. *Open air guides.*

Illustrated account of structure, life-history and habits of beetles, and way in which they are named and classified. The main part consists of 'family' keys, which together with the coloured plates and figs. enable one to identify any of the common beetles. Originally published as *Welcher Käfer ist das?* Stuttgart, Franckh'sche Verlagshandlung, 1954.

(A) 405

6 APPLIED SCIENCES

CROWTHER, J. G.

Science unfolds the future. Muller, 1956. pp. 255, plates, bibliog. 18s.

Radio-astronomy, rockets and space flight, food resources, automation, physical endurance and athletic records, and the origin of life are discussed for the general reader, at the usual high standard of the author's presentations of science for the layman.

(A) 406

61 MEDICINE

614 Public health

TINTOMETER, LTD.

Colorimetric chemical pathological estimations using the Lovibond Comparator: a handbook of the methods and information; [ed. by G. J. Chamberlin] Waterloo Rd., Salisbury, Tintometer [1955]. pp. 2-111, col. front., illus. (some col.), tables, diagrs. 18s. 6d.

Describes colorimeter methods of analysis suitable for investigating the extent of pollution of waters; a short section on food analysis is also included.

(C) 407

62 ENGINEERING

621.3 Electrical engineering

GREAT BRITAIN. National Physical Laboratory

Standard capacitors and their accuracy in practice. H.M.S.O., 1955. pp. iv, 10, table, 2 diags., bibliog. 1s. 3d. *Notes on applied sciences—no. 13.*

(B) 408

HUBERT, C. I.

Preventive maintenance of electrical equipment: preventive programs, trouble shooting, emergency repairs, operating techniques. New York, London, McG.-H., 1955. pp. x, 214, illus., tables, diags. 30s. or \$4.

A practical approach that will appeal to the plant engineer.

(B) 409

MACLANACHAN, W.

Television and Radar Encyclopedia. 2nd ed. Newnes, 1955. pp. viii, 216, illus., tables, diags. 30s.

Primarily a glossary of technical terms, revised to include many new terms which have come into use since 1953. Entries dealing with circuiting are suitably illustrated and there are a number of longer articles each written by an expert. Field strength maps for the principal British T.V. stations are included.

(D) 410

621.4 Internal combustion and heat

BAKER, H. W.

Technology of heat. L.G., 1956. pp. xiii, 427, tables, diags. 36s.

A textbook with a new approach to the subject—the application of theory to current industrial problems as the student is able to appreciate them. Suitable exercises are appended to each chapter.

(B) 411

621.8 Power transmission

WILSON, W. K.

Practical solution of torsional vibration problems; with examples from marine, electrical, aeronautical and automobile engineering practice. 3rd ed. rev. Vol. 1: Frequency calculations. C. & H., 1956. pp. xxii, 704, front., plate, tables, diags., bibliog. 105s.

Previous ed. 1940. Each volume has been made self-contained, and an introductory historical review of the subject has been added to Vol. 1.

(B) 412

621.9 Machine tools, workshop practice

BAKER, H. W.

Modern workshop technology. 2nd ed., rev. and enl. Part 1: Material and processes. Cleaver-Hume Press, 1956. pp. viii, 511, illus., tables, diags., bibliog. 35s.

Previous ed. 1948.

(B) 413

623 Military engineering

LOCKE, A. S., and others

Guidance. Princeton (N.J.), Van Nostrand; London, MacMillan, 1955. pp. xvi, 729, illus., plate, tables, diags. 90s. or \$12.50. *Principles of guided missile design series, ed. by G. Merrill.*

(C) 414

624 Civil engineering

BAKER, J. F.

The steel skeleton: vol. 2, Plastic behaviour and design, by J. F. Baker, M. R. Horne and J. Heyman. Cambridge, G.U.P., 1956. pp. xii, 408, plates, tables, diags., bibliog. 63s.

A comprehensive account of the method of designing structures by reference to their plastic behaviour written by three of the leading authorities on this subject. (C) 4.5

626/627 Hydraulic engineering

LINSLEY, R. K., and FRANZINI, J. B.

Elements of hydraulic engineering. New York, London, McG.-H., 1955. pp. xiii, 582. \$9 or 67s. 6d. *McGraw-Hill series in civil engineering*, ed. by H. E. Davis.

A civil engineering textbook on the control and utilization of water. The references are given mainly to American sources, and some of the data are only applicable to continental conditions. (B) 4.6

628 Sanitary engineering

GREAT BRITAIN. Fuel Research Station

The investigation of atmospheric pollution. H.M.S.O., 1955. pp. vi, 207, tables, diags. 7s. 6d.

27th report: observations in the ten years ended 31st March, 1954. The terms of reference of the Committee were 'to carry out the supervision, co-ordination and collation of the local records of atmospheric pollution, and to advise on research into the amount, nature and prevention of the pollution'. (B) 4.7

629.113 Automobile engineering

FRAZEE, I., and others

Automotive suspensions, steering and wheel alignment, by I. Frazee, W. Landon, G. Hafferkamp; co-ordination of illus. by A. E. Burke. 2nd ed. rev. Chicago, American Technical Society; London, Technical Press, 1955 [1956]. pp. xiv, 338, illus., tables, diags. 48s. or \$5.75. *Automotive series*, ed. by I. Frazee and E. L. Bedell.

Previous ed. 1951. Prepared by members of U.S. motor firms, the book is intended to aid mechanics concerned with motor-car maintenance and covers springs, shock absorbers, axles, independent front suspensions, steering gears and linkages, the factors of wheel alignment, their effects and measurement, diagnosis of wheel alignment, corrections and adjustments, and wheel alignment specification. It is well illustrated by photographs and diagrams. (B/C) 4.8

629.12 Shipbuilding

MANNING, G. C.

Theory and technique of ship design: a study of the basic principles and processes employed in the design of ships of all classes. Cambridge, Massachusetts, Institute of Technology; New York, Wiley; London, C. & H., 1956. pp. x, 278, tables, diags. 80s. or \$10.

(B) 4.9

629.13 Aeronautical engineering

AEROMODELLER

Annual, 1955-56: a review of the year's aeromodelling throughout the world in theory and practice; together with useful data, contest results and authoritative articles, produced by staff and contributors of the *Aeromodeller*; comp. by D. J. Laidlaw-Dickson and ed. by C. S. Rushbrooke. Watford (Herts.), Model Aeronautical Press, 1955. pp. 160, col. front., illus., col. plate, tables, diags. 10s.

(D) 4.20

HARVEY, D. G. T.

British civil aviation: aircraft and operators. Adlard Coles and Harrap, 1955. pp. 168, front., illus., maps, tables, diags. 15s.

(A) 421

HIGH speed aerodynamics and jet propulsion. Vol. 1: Thermodynamics and physics of matter; ed. by F. D. Rossini. O.U.P., 1955. pp. xviii, 812, tables, diags., bibliog. 100s.

(C) 422

JANE'S all the world's aircraft, 1955-56, comp. and ed. by L. Bridgman. Jane's All the World's Aircraft Publishing Co. [Sampson Low, Marston], 1955. pp. [4], ii, 410, xxxii, illus., tables, diags. 84s.

(D) 423

63 AGRICULTURE

GARRETT, S. D.

Biology of root-infecting fungi. Cambridge, C.U.P., 1956. pp. xi, 293, tables, bibliog. 30s.

Deals with root-infecting fungi, their biology and ecology in the soil.

(B) 424

GRASSLAND RESEARCH INSTITUTE

Lucerne investigations, 1944-1953. Hurley, nr. Maidenhead (Berks.), Grassland Research Institute, 1955. pp. [2], 81, illus., tables, diags., bibliog. 10s.

(B) 425

65 COMMUNICATIONS AND COMMERCE

651/652 Office management

BASSETT, E. D., and AGNEW, R. L.

Business filing. 2nd ed. Cincinnati, South-Western Publishing Co., 1955. pp. v, 170, illus., tables, diags. \$1.60.

Designed as a text book for students, with questions at end of each chapter. Covers all types of filing with emphasis on the underlying principles.

(B) 426

655 Printing, Publishing, Book-trade

HERTZBERGER, M.

Dictionary for the antiquarian book trade in French, English, German, Swedish, Danish, Italian, Spanish and Dutch. [12-13 Grafton Street, London, W.1., Antiquarian Booksellers' Association] 1956. pp. 190. 86s.

Main alphabet is in French with translations into the other languages and there are separate indexes for each of the other languages. Contains many terms of use to librarians.

(D) 427

656 Transport

LLOYD'S

Survey handbook; comp. and ed. by the Controller of Agencies. Lloyd's. rev. ed. Lloyd's, 1956. pp. vii, 229. 69s.

Deals with the causes of loss or damage to various commodities in transit. Includes an encyclopedia of commodities. Previous ed. 1952.

(C) 428

657 Accountancy

HAMILTON, W. R.

The principles of modern book-keeping. 3rd ed., by B. J. Davis. Gee, 1956. pp. 109, tables.

Previous ed. 1931.

(B) 42

658 Industrial management

BRISTOL AND BATH PRODUCTIVITY ASSOCIATION

'What about work study?' An enquiry into its benefits and snags, by a Bristol Working Party. 34 Whiteladies Road, Bristol. The Association; [London, British Productivity Council], 1956. pp. 40, illus., tables, diagrs. 3s. (B) 430

WOOLLARD, G.

Flow production and automation: eighteen axioms. Birmingham, College of Technology, Industrial Administration Group, 1956. pp. 20. 5s. (B) 431

67 MANUFACTURES

671 Jewelry, plate

SINKANKAS, J.

Gem cutting: a lapidary's manual. Princeton (N.J.), Van Nostrand; London, MacMillan, [1955]. pp. 413, col. front., illus., tables, diagrs., bibliog. 63s. or \$8.95.

Map on end papers.

(B) 432

677 Textiles

MIDDLEBROOK, W.

Secondary aspects of the power loom. Manchester, London, Emmott, 1955. pp. [8] 132, illus., diagrs. 5s. *'Textile Manufacturer' Monographs.*

(B) 433

69 BUILDING

WILLIS, A. J.

More advanced quantity surveying. 5th ed. rev. Lockwood, 1956. pp. x, 291, tables, diagrs. including a separate portfolio of full-scale plates. 35s.

Contains a new chapter, 'The measurement of pre-stressed concrete', which is available separately. 16 plans in slip case. Previous ed. 1948.

(B) 434

7 FINE ARTS

77 PHOTOGRAPHY

MYTUM, E.

An introduction to photographic materials. Macdonald and Evans, 1956. pp. xiii, 217, illus., tables, diagrs., bibliog. 35s.

Written with the examinations in photography of the City and Guilds Institute in mind, but useful to any serious photographer and requiring only a modest knowledge of science.

(B) 435

9 HISTORY, GEOGRAPHY

95 Asiatic History

BIRDWOOD, C. B. *2nd Baron Birdwood*

Two nations and Kashmir. Hale, 1956. pp. xviii, 19-237, front., 2 plates (incl. port.), maps. 21s.

A detailed study of the Indo-Pakistani dispute.

(B) 436

COLLIS, M.

Last and first in Burma (1941-1948). Faber, 1956. pp. 303. 17 plates (incl. ports.), maps. 30s.

The story of British rule and of emergence of independence in Burma.

(B) 437

WALKER, R. L.

China under Communism: the first five years. A. & U., 1956. pp. xv, 403, plates (facsim.), bibliog. 30s.

Originally published New Haven (Conn.), Yale. U.P., 1955. Gives the American point of view.

(B) 438

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

- A. & U.: Allen & Unwin,
- C. & H.: Chapman and Hall
- C.U.P.: Cambridge University Press
- H.M.S.O.: Her Majesty's Stationery Office
- L.G.: Longmans, Green
- McG.-H.: McGraw-Hill
- O. & B.: Oliver and Boyd
- O.U.P.: Oxford University Press

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Aslib Book-List

A MONTHLY LIST
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AND TECHNICAL BOOKS
WITH ANNOTATIONS

August 1956



Volume 21

Number 8

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THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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ASLIB BOOK-LIST

Volume 21

Number 8

August 1956

001 GENERAL KNOWLEDGE

001.8 Methods of intellectual work

NATIONAL RESEARCH COUNCIL, Washington

Industrial research laboratories of the United States. 10th ed., comp. by J. F. Mauk [and others]. Washington, The Council, 1956. pp. [10], 560. \$10. *Publication* 379.

Alphabetical arrangement with subject and geographical indexes. Entries cover address, research staff and research activities. 4,060 institutions are included. (D) 439

01 BIBLIOGRAPHY

BRISTOL. University. Institute of Education

A survey of books for backward readers; comp. by a sub-committee of the Bristol Teachers' Backwardness Research Group, under the chairmanship of T. W. Pascoe. Ed. by D. H. Stott. University of London Press, 1956. pp. 104. 4s. 6d. *Bristol University Institute of Education Publications*—no. 9.

An appraisal of 93 books or series, giving reading age, interest age, etc. (D) 440

DIEHL, K. S.

Religions, mythologies, folklores; an annotated bibliography. New Brunswick, Scarecrow Press; [London, Bailey Bros.], 1956. pp. 315. 58s. or \$6.50.

Includes only books, mostly published since 1900, classified arrangement with author and title index. Short annotations given. Half the book is devoted to Christianity. (D) 441

FONDATION NATIONALE DES SCIENCES POLITIQUES

International bibliography of economics (works published in 1954 including some publications of the previous years) prepared with the assistance of the International Economic Association and the International Committee for Social Sciences Documentation. Vol. III. Paris, Unesco [London, H.M.S.O.], 1956. pp. 434. 42s. or 2,000 fr. or \$8. *Documentation in the Social Sciences*.

(D) 442

INTERNATIONAL POLITICAL SCIENCE ASSOCIATION and INTERNATIONAL COMMITTEE FOR SOCIAL SCIENCES DOCUMENTATION

International bibliography of political science, Vol. III (works published in 1954, including some publications of the previous years); ed. J. Meynaud. Paris, Unesco [London, H.M.S.O.], 1956. pp. 266. 24s. 6d. or 1,200 fr. or \$4.50. *Documentation in the social sciences*.

Includes books, pamphlets and periodical articles. Classified arrangement with author and subject indexes, and a list of periodicals covered. No annotations. (D) 443

UNITED STATES. Armed Forces Medical Library. *Reference Division*

The structure, composition and growth of bone, 1930-1953; comp. by M. C. Spencer and K. Uhler. Washington, the Library, 1955. pp. x, 190. \$1.

Obtainable from U.S. Government Printing Office.

(D) 444

02 LIBRARIANSHIP

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Handbook on the international exchange of publications. 2nd ed., ed. and rev. by G. von Busse with the collaboration of H. Werhahn. Paris, Unesco [London, H.M.S.O.], 1956. pp. 507. 36s. or £800 fr. or \$7.

Mainly a directory of institutions willing to take part in exchanges, with a general introduction. Entries have not all been revised since the last edition. Text in English and Spanish. (D) 445

COLLISON, R. L.

Library assistance to readers. 2nd ed. rev. and enl. Crosby Lockwood, 1956. pp. xviii, 125, plates. 13s. 6d.

Covers reference techniques and sources, library display, library publications and source extension work. Much expanded since the previous ed., 1950. (B) 446

PIGGOTT, M., ed.

Notes on cataloguing books in certain foreign languages. Library Association, 1956. pp. 53. 7s. (5s. to members). *Library Association pamphlet—no. 15.*

Gives information important for cataloguing purposes, together with a list of words which frequently occur in bibliographical descriptions. Languages covered include French, Spanish, German, Dutch, Afrikaans and the Scandinavian languages. (D) 447

3 SOCIAL SCIENCES

301 Sociology

FROMM, E.

The sane society. Routledge and K. Paul, 1956. pp. xiv, 370, tables. 25s. *International library of sociology and social reconstruction, ed. by W. J. H. Sprott.*

The plight of modern man in a society whose main aim is economic production. (C) 448

KLEIN, J.

The study of groups. Routledge and K. Paul, 1956. pp. ix, 200, tables, diags., bibliog. 21s. *International library of sociology and social reconstruction, ed. by W. J. H. Sprott.*

An attempt to bring together the problems in analysis presented by behaviour in the small group. (C) 449

31 STATISTICS

GREAT BRITAIN. Central Statistical Office

National income statistics: sources and methods. H.M.S.O., 1956. pp. viii + 387. 25s. *Studies in official statistics—no. 3.*

Essential for the user of official statistics. (C) 450

32 POLITICAL SCIENCE

BENNEY, M. and others

How people vote: a study of electoral behaviour in Greenwich, by M. Benney, A. P. Gray and R. H. Pear. London, Routledge and K. Paul; New York, Grove Press, 1956. 25s. *International Library of Sociology and Social Reconstruction, ed. by W. J. H. Sprott.*

(A) 451

WRIGHT, R.

The colour curtain, a report on the Bandung conference; foreword by G. Myrdal. Dobson, 1956. pp. 188, 4 plates. 12s. 6d.

A first-hand account by an American Negro.

(B) 452

33 ECONOMICS

ROBINSON, J.

The accumulation of capital. Macmillan, 1956. pp. xvi, 440, tables, diags. 28s.

(C) 453

MYRDAL, A. and KLEIN, V.

Women's two roles: home and work. Routledge and K. Paul, 1956. pp. xiii, 208, tables, diags., bibliog. 25s. *International library of sociology and social reconstruction, ed. by W. J. H. Sproull.*

The position of women as wage-earners in France, Great Britain, Sweden and the United States.

(C) 454

BRITISH TRANSPORT COMMISSION. London Transport Executive

Health in industry: a contribution to the study of sickness absence, experience in London Transport. Butterworth, on behalf of London Transport Executive, 1956. pp. [v], 177, tables, diags. 35s.

(B) 455

ROBERTS, B. C.

Trades union government and administration in Great Britain. Bell, London School of Economics and Political Science, 1956. pp. viii, 570, tables, diags. 31s. 6d.

(B) 456

CARLSON, A. S., ed.

Economic geography of industrial materials. New York, Reinhold; London, C. & H., 1956. pp. ix, 494, illus., maps, tables, diags. 100s. or \$12.50.

(C) 457

35 PUBLIC ADMINISTRATION

BEER, S. H.

Treasury control: the co-ordination of financial and economic policy in Great Britain. Oxford, Clarendon, 1956. pp. ix, 138, bibliog. 15s.

(B) 458

37 EDUCATION

GOPSILL, G. H.

The teaching of geography. London, Macmillan; New York, St. Martin's Press, 1956. pp. xi, 316, illus., maps, tables, diags., bibliog. 25s.

A comprehensive manual for both primary and secondary school teachers.

(B) 459

EDMUNDSON, J.

P.E. teachers' handbook. Evans, 1956. pp. 192, illus., tables, diags., bibliog. 8s. 6d.

Physical education for the non-specialist in the primary school.

(B) 460

TIRRELL, L. B.

The aided schools handbook. Mowbray, 1956. pp. xii, 89, diags. 5s.

A practical guide to the management of Church schools.

(B) 461

COLLISS, G. F. M.

Family of forty: a book for young teachers and students in training. Chambers, 1956. pp. 96, illus., plan, diags. 7s. 6d.

Advice for teachers of infants.

(A) 462

5 NATURAL SCIENCES

53 PHYSICS

SPROULL, R. L.

Modern physics: a textbook for engineers. New York, Wiley; London, C. & H., 1956. pp. xii, 491, illus., tables, diags., bibliog. 62s. or \$7.75.

The aim of this book is to present to engineers those parts of twentieth-century physics which are of greatest importance in engineering. (C) 463

WHITE, H. E.

Descriptive college physics. New York, Van Nostrand; London, Macmillan, 1955. pp. x, 485, col. front., illus., col. plates, maps, diags. 42s. or \$5.75.

Revised and compressed version of the author's 'Classical and modern physics'. (B) 464

HANNAH, J. and STEPHENS, R. C.

Examples in mechanical vibrations. Arnold, 1956. pp. viii, 152, tables, diags. 18s.

A collection of worked and unworked exercises, with a summary of results, to supplement the standard texts. (B) 465

RAMSEY, H. F.

Molecular beams. Oxford, Clarendon Press, 1956. pp. xii, 466, plates, tables, diags., bibliog. 75s. *International series of monographs on physics*, ed. N. F. Mott and E. C. Bullard.

Generation of molecular beams and application of the resonance technique to measurement of atomic and nuclear properties. (C) 466

54 CHEMISTRY

PHILLIPS, C.

Gas chromatography. Butterworth's Scientific Publications, 1956. pp. x, 105, illus., tables, diags., bibliog. 25s.

Surveys the recent achievements of work in the field of gas chromatography and is designed to help those intending to use gas chromatographic techniques. (B) 467

BARNETT, E. DE B.

Mechanism of organic chemical reactions. Blackie, 1956. pp. xi, 289, diags., bibliog. 30s.

Gives a brief account of modern views of the mechanism by which some familiar reactions of organic chemistry take place. (B) 468

55 GEOLOGY

DE SITTER, L. U.

Structural geology. New York, London, [etc.], McG.-H., 1956. pp. [8], 552, illus., plates, maps, tables, diags., bibliog. 75s. 6d. *McGraw-Hill series in geological sciences*, ed. R. R. Shrock.

(B) 469

551.5 Meteorology

GREAT BRITAIN. Meteorological Office

Handbook of meteorological instruments. Part I, Instruments for surface observation. H.M.S.O., 1956. pp. x, 458, illus., 53 plates, map, tables, diags., bibliog. 45s.

Full information on design, installation, operation and maintenance of instruments used in surface observations by the Meteorological Office. (B) 470

PETTERSSSEN, S.

Weather analysis and forecasting. Vol. I, Motion and motion systems. 2nd ed. New York, London, etc., McG.-H., 1956. pp. xix, 428, map, tables, diags., bibliog. 64s. or \$8.50.

Emphasis is on the dynamics of atmospheric processes. A book for the advanced student and the professional meteorologist. Previous ed. 1940. (C) 471

57 BIOLOGY

572 Anthropology

CORY, H.

African figurines: their ceremonial use in puberty rites in Tanganyika. Faber, 1956. pp. 176, illus., bibliog. 63s.

(C) 472

WINTER, E. H.

Bwamba: a structural-functional analysis of a patrilineal society. Cambridge, Heffer, for the East African Institute of Social Research, 1956. pp. x, 264, front., 10 plates (incl. maps), diags. 30s.

(C) 473

59 ZOOLOGY

HOPKINS, G. H. E. and ROTHSCILD, M.

An illustrated catalogue of the Rothschild collection of fleas (Siphonaptora) in the British Museum (Natural History): with keys and short descriptions for the identification of families, genera, species and sub-species of the order. Vol. 2, coptosyllidae, vermipsyllidae, stephanocircidae, ischnosyllidae, hypsophthalmidae and xiphiopsyllidae. British Museum (Natural History), 1956. pp. xi, 445, 33 plates (incl. map), tables, diags.

Since completion of Vol. 1 (1953) the number of described species and sub-species of fleas has risen to 1,500 of which approximately 1,200 are in the collection. With regard to keys, descriptions, notes and figures, the plan adopted in Vol. 1 has been followed. There is no host index. This will be included in the final volume. (C) 474

SMART, J.

A handbook for the identification of insects of medical importance; with chapters on fleas by Dr. K. Jordan and on arachnids by R. J. Whittick. 3rd ed. British Museum (Natural History), 1956. pp. xi, 303, col. front., illus., 12 plates (incl. 2 col.) tables, bibliog. 40s.

Aims to make possible the accurate identification of insects who menace the physical well-being of man. It is assumed that those who use the book possess an elementary knowledge of general and medical entomology, such as can be obtained by the diploma course in tropical medicine. (C) 475

6 APPLIED SCIENCES

62 ENGINEERING

620.1 Testing materials

METROPOLITAN-VICKERS ELECTRICAL CO., LTD.

Creep-relaxation testing, [by] J. H. M. Draper [and] Short-time creep-relaxation tests, [by] S. J. Watson. Manchester, Metropolitan-Vickers Electrical Co. Ltd., 1956. pp. [1], 6, diags. *Metropolitan-Vickers Electrical Co. Ltd., Research series—no. 21.*

(C) 476

622 Mining engineering

UREN, L. C.

Petroleum production engineering: oil field development. 4th ed. New York, London, [etc.], McG.-H. pp. xii, 792, illus., tables, diags., bibliog. 90s. or \$12.

Previous ed. 1946.

(B) 477

624 Civil engineering

FEDERATION OF CIVIL ENGINEERING CONTRACTORS

The British civil engineering contracting industry. Tufton Street, London, S.W.1, Romney House, Federation of Civil Engineering Contractors, 1955. pp. viii, 191, plates, illus. 63s.

A beautifully illustrated book giving outstanding examples of British engineering works. It is divided into sections covering transport and communications, fuel and power; public health; war (air fields, ordnance factories, shelters and fortifications, Mulberry harbour and Pluto); and industry.

(A) 478

PEURIFOY, R. L.

Construction planning, equipment and methods. New York, London, [etc.], McG.-H., 1956. pp. xx, 534, illus., plate, tables, diags. 64s. or \$8.50. *Civil engineering series, ed. by H. E. Davis.*

The purpose of this volume is to apply engineering fundamentals and analyses to construction activities in order to improve quality and reduce costs.

(C) 479

629 Transport engineering

MERCHANT ships: world built, 1956; vessels of 1,000 tons gross and over, completed in 1955, comp. by the publishers with an introduction by A. C. Hardy. Southampton, Adlard Coles; London, Harrap; New York, de Graff, 1956. pp. 264, front., illus., tables, diags. 30s. or \$5.25.

Illustrated descriptions of merchant ships completed in 1955.

(D) 480

PICCARD, A.

In balloon and bathyscaphe, tr. by C. Stead. Cassell, 1956. pp. xiii, 192, front. (ports.), 14 plates, tables, diags. 21s

Originally published as 'Au fond des mers en bathyscaphe'. Primarily the story of the development of the stratospheric balloon and the adaptation of the principles to the submarine bathyscaphe.

(A) 481

63 AGRICULTURE

LAWRENCE, W. J. C.

Soil sterilization. A. & U., 1956. pp. 175, plates, tables, diags., bibliog. 18s.

From recent research, the author shows the usefulness of soil sterilization. Details are given of apparatus and methods which can be applied to small and large installations.

(B) 482

65 COMMUNICATIONS AND COMMERCE

658 Industrial management

MACMILLAN, R. H.

Automation: friend or foe? C.U.P., 1956. pp. viii, 100, front., 8 plates, bibliog. 8s. 6d.

Based on a series of lectures given at the Royal Institution in 1955, the principles of automatic control and their application in the design of automatic factories are described. A chapter on the development and applications of computer in factory and office, and an annotated bibliography are included.

(A) 483

ACTON SOCIETY TRUST

Management succession: the recruitment, selection, training and promotion of managers. The Trust, 1956. pp. 139, tables, diags., bibliog. 10s. 6d.

(C) 484

BRITISH INSTITUTE OF MANAGEMENT

Outline of work study, Part I: introduction. The Institute, 1956. pp. viii, 19, diagrs. 3s. 6d. *Production management series*, 2A.

Brief introduction to the techniques of method study and work measurement based largely on experience at I.C.I. Ltd. (B) 485

66 CHEMICAL TECHNOLOGY

HAYNES, W.

Chemical trade names and commercial synonyms: a dictionary of American usage. 2nd ed., rev. and enl. Princeton, Van Nostrand; London, Macmillan, 1955. pp. vi, 466. 60s. or \$8.

Previous ed. 1951.

(D) 486

GIDDENS, P. H.

Standard Oil Company (Indiana), oil pioneer of the Middle West. New York, Appleton, 1955. pp. xx, 741, plates. 50s. or \$7.50.

A history of the Standard Oil Company (Indiana) from its beginning to end of 1951.

(A) 487

669 Metallurgy

KUBASCHEWSKI, O. and CATTERALL, J. A.

Thermochemical data of alloys. Pergamon Press, 1956. pp. [5], 200, tables, diagrs. 45s. *Metal and physical metallurgy series*, ed. by G. V. Raynor—vol. 3.

The first attempt to compile, from the literature, the data necessary to establish the 'free energy' diagrams of metallic systems and of the oxide, sulphides, nitrides, phosphides and carbides of the transition metals. The mode of assessment of the thermodynamic data differs from previous compilations of the data of theoretical metallurgy. About 230 binary and ternary systems are dealt with. There is a list of 537 references to literature which has been mentioned in the text, of considerable value to research workers in this field.

(C) 488

67/68 MANUFACTURES

WASTE trades manual and directory, 1955-56, ed. by G. Hughes. Waste Trades Review, 1956. pp. 464, tables. 21s.

(D) 489

677 Textiles

CARPET annual, 1955-56 (*Annuaire de l'industrie de tapis*): yearbook and directory of the world's carpet industries and trade. British-Continental Trades Press, 1956. pp. 378, illus. (some col.), tables. 20s.

(D) 490

681 Fine mechanisms

BOOTH, A. D. and BOOTH, K. H. V.

Automatic digital calculators. 2nd ed. Butterworth Scientific Publications, 1956. pp. ix, 261, front., plates, tables, diagrs., bibliog. 32s.

In the new edition of this introductory account, some errors have been corrected and new material of recent origin has been incorporated. Previous ed. 1953. (B) 491

69 BUILDING

DRURY, E.

Building site manual: a practical guide to building site procedure. Newnes, 1956. pp. viii, 9-180, illus., tables. 12s. 6d.

Practical advice for clerks of works and others on site office routine, inspection of work, preliminaries and setting out, building lines, site surveys and the measurement of existing buildings. (B) 492

7 FINE ARTS

77 PHOTOGRAPHY

STÖCKLER, H. *and others*

The Leica in professional practice. Focal Press, 1956. pp. 540, illus. (some col.), col. facsim., tables, diagrs. 50s. *Photo books.*

Translated from 'Die Leica in Beruf und Wissenschaft, 1954'. A collection of articles on the use of the Leica camera in many branches of science and technology and business, by 26 experts. English text prepared by W. E. Roscher. (B) 493

MUYBRIDGE, E.

The human figure in motion. New York, Dover, [1955]. pp. xvii, 195, double-page plates. \$10.

A selection of plates from the eleven-volume 'Animal locomotion', first published in 1887. A pioneer work in the application of cinematography to anatomical studies and important in the pre-history of the cinema. (A) 494

9 HISTORY, GEOGRAPHY

92 BIOGRAPHY

RIDER, F.

And master of none: an autobiography in the third person. Middletown, Conn., Godfrey Memorial Library, 1955. pp. xv, 253, front., plates, ports. \$6.50.

Covers the author's activities not only as a librarian, but in a wide range of literary capacities, as well as inventor, architect and genealogist. (A) 495

SEELIG, C.

Albert Einstein: a documentary biography, tr. [from the German] by M. Savill. Staples Press, 1956. pp. 240, front. (port.). 16s.

Originally published Zurich, Europa-Verlag, 1952. The author knew Einstein personally. He has had access to correspondence and minutes, much of which has not been published before, resulting in an eminently readable biography, laying particular emphasis on the development of Einstein's personal life rather than on his scientific and personal ideas. Seelig's account of Einstein's Swiss period and his death are particularly important. (A) 496

94 EUROPEAN HISTORY

WISKEMANN, E.

Germany's eastern neighbours: problems relating to the Oder-Neisse line and the Czech frontier regions. O.U.P., 1956. pp. x, 309, front., plate (map), tables, bibliog. 30s.

A scholarly history of events leading up to the present situation. (C) 497

WERTH, A.

France 1940-1955; with a foreword by G. L. H. Cole. Hale, 1956. pp. xxxii, 764, tables, bibliog. 35s.

A mass of information on all aspects of French life and history since 1940. (B) 498

95 ASIATIC HISTORY

LAQUEUR, W. Z.

Communism and nationalism in the Middle East. Routledge and K. Paul, 1956. pp. xi, 362. 32s.

This book surveys the history of communism, country by country, from 1918 to 1955, and considers the position of the Middle East in the modern world. (C) 499

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

- A. & U.: Allen & Unwin
- C. & H.: Chapman and Hall
- C.U.P.: Cambridge University Press
- H.M.S.O.: Her Majesty's Stationery Office
- L.G.: Longmans, Green
- McG.-H.: McGraw-Hill
- O. & B.: Oliver and Boyd
- O.U.P.: Oxford University Press

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September 1956

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Number 9

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THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

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- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

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01 BIBLIOGRAPHY

EDELMAN, C. H., and EEUWENS, B. E. P.

Bibliography on land and water utilization and conservation in Europe. Rome, Food and Agriculture Organization of the United Nations; [London, H.M.S.O.] 1955. pp. [8], 347. Mimeographed. 7s. 6d. or \$1.50. *F.A.O.* 55/11/7708.

Classified arrangement with no indexes and no annotations.

(D) 500

MENNINGER, K. A.

A guide to psychiatric books with some suggested reading lists. 2nd rev. ed. New York, London. Grune and Stratton, 1956. pp. xvi, 157. 27s. or \$4.75. *The Menninger Clinic monograph series—no. 7.*

Classified arrangement with author index. Covers books only and gives no annotations.

(D) 501

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION, European Productivity Agency and ASSOCIATION FRANÇAISE POUR L'ACCROISSEMENT DE LA PRODUCTIVITÉ

Bibliography on productivity. Paris, O.E.E.C.; [London, H.M.S.O.], 1956. pp. xvi, 250. 14s. or 700 fr. *Project no. 233.*

Classified arrangement with brief geographical index and list of journals covered.

Most items are annotated.

(D) 502

UNION OF INTERNATIONAL ASSOCIATIONS

International institutions and international organization; a select bibliography; comp. by G. P. Speeckaert. Brussels, the Union, 1956. pp. 116. 14s. or \$2. *F.I.D. publication no. 292; U.I.A. publication no. 151.*

Classified list with author index. No periodical articles included, and no annotations.

Obtainable from E. S. Tew, 91 Lyndhurst Gardens, London, N.3.

(D) 503

UNITED STATES. Library of Congress. *European Affairs Division*

Introduction to Europe: supplement, 1950-1955; comp. by H. F. Conover. Washington, the Library, 1955. pp. 181. \$1. [Obtainable from U.S. Government Printing Office and H.M.S.O.].

Bibliography intended for the general reader, with long annotations.

(D) 504

02 LIBRARIANSHIP

BRUMMEL, L.

Union catalogues: their problems and organization; prepared on the recommendation of the International Advisory Committee on Bibliography. Paris, Unesco; [London, H.M.S.O.], 1956. pp. 91. 8s. or 400 fr.

Discussion of the value and organization of union catalogues based on first-hand examination of institutions in the most important countries in Europe and America.

(B) 505

LEWIS, C. M. and OFFENHAUSER, W. H.

Microrecording: industrial and library applications. New York, London, Interscience, 1956. pp. xi, 456, illus., facs., tables, diagrs. \$8.50 or 68s.

Covers some other copying processes in addition to micro-photography. Deals with equipment, organization of reproduction unit, filing and retrieval, and the legal aspects.

(B) 506

RANGANATHAN, S. R.

The organization of libraries. 2nd ed. Madras, London, O.U.P., 1956. pp. vii, 176, plans, tables, diagrs. 6s. *Teaching in India series—xiv.*

Deals with all aspects of library organization with special reference to school libraries in India. (A) 567

ROBERTS, A. D.

Introduction to reference books. 3rd ed. Library Association, 1956. pp. vii, 237. 16s. (12s. to members).

One of the best works on the use of reference books, brought up to date to cover recent material. (B) 568

SEWELL, P. H.

The regional library systems. 2nd ed. rev. With the assistance of P. W. Plumb. Library Association, 1956. pp. 71, table, diagrs. 7s. (5s. to members). *Library Association pamphlet—no. 2.*

Brought up to date to cover recent developments such as the various subject specialization schemes and the Vollant report. (B) 569

TAUBE, M. and others.

Studies in co-ordinate indexing, Vol. 3; by M. Taube and associates. [Washington, D.C.], Documentation Incorporated, 1956. pp. iii, 165.

Eight papers concerned mostly with the cost of retrieval systems and mechanical indexing, with particular reference to the Uniterm System. (C) 510

1 .PHILOSOPHY

159.9 Psychology

GLOVER, E.

Selected papers on psycho-analysis. Vol. 1: On the early development of mind. Imago Publishing Co., 1956. pp. xi, 483, diagrs, biolog. 45s.

Reprints with up-to-date comments, of 28 papers dating from 1924 to 1954, many devoted to fine points of terminology and technical concepts. The later papers bear constant witness to Dr. Glover's struggles against the "heresies" of the Klein school. The book will, however, have a place in any specialized history of the Freudian movement. (C) 511

2 RELIGION

EVANS-PRITCHARD, E. E.

Nuer religion. Oxford, Clarendon Press, 1956. pp. xii, 336, front., illus., plates. 42s.

(C) 512

3 SOCIAL SCIENCES

31 STATISTICS

HAUSER, P. M., and LEONARD, W. R., eds.

Government statistics for business use. 2nd ed. New York, Wiley; London, C. & H., 1956. pp. xx, 440, tables, diagrs. 68s. or \$8.50. *Wiley publications in statistics.*

A review by a group of authors of the main sources of statistical information issued by the U.S. Government. (B) 513

36. WELFARE AND INSURANCE

368 Insurance

TAYLOR, M. G.

The administration of health insurance in Canada. Toronto, London, O.U.P., 1956. pp. xiv, 270, tables diagrs. 40s.

Deals with the experience of the various plans in the administration of a complex system of social insurances. (C) 514

37 EDUCATION

DEMPSTER, J. J. B.

Purpose in the modern school. Methuen, 1956. pp. [5], 119, bibliog. 7s. 6d.

A survey of secondary modern education to-day. (A) 515

4 PHILOLOGY

413 Dictionaries

MACINTYRE, S. and WITTE E.

German-English mathematical vocabulary; with a grammatical sketch by L. W. Brebner. Edinburgh, London, O. & B.; New York, Interscience, 1956. pp. xi, 95. 8s. 6d. or \$1.55.

A brief dictionary intended mainly for students with a list of abbreviations and an outline of grammar for beginners. (A) 516

5 NATURAL SCIENCES

52 ASTRONOMY

MOORE, P.

The planet Venus. Faber, 1956. pp. 132, illus., plates, tables, diagrs. 15s.

The first serious book in any language devoted entirely to the study of Venus, a planet of which little is known in spite of its comparative proximity. A review of the literature of the subject, coupled with over 150 references to relevant papers, considerably enhances the value of the book. (A) 517

PAYNE-GAPOSCHKIN, C.

Introduction to astronomy. Eyre and Spottiswoode, 1956. pp. xi, 508, front., illus., map, tables, diagrs. 50s.

This book, first published in America in 1954, is one of the best introductions to astronomy for the student and the general reader with little knowledge of mathematics or physics. At least half the book is devoted to stars, stellar systems and astrophysics, so that the book is a correct reflection of modern astronomical research in which the emphasis has shifted away from the solar system. (A) 518

53 PHYSICS

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS. Philadelphia-Wilmington Section.

Fluid flow in practice: a collection of papers originally presented in Philadelphia, Pa., in May, 1955, under the auspices of the Philadelphia-Wilmington Section of the American Institute of Chemical Engineers and the Department of Chemical Engineering, University of Pennsylvania; ed. J. R. Caddell. New York, Reiphold; London, C. & H., 1956. pp. vii, 119, illus., diagrs. 24s. or \$3.

The treatment is elementary and the approach practical. The book should prove really useful to engineers, development chemists and others interested in the installation of liquid flow systems. (B) 519

BORN, M.

Physics in my generation; a selection of papers. Pergamon Press, 1956. pp. viii, 232, diagrs., bibliog. 40s.

A selection of the author's popular writings covering a period of 30 years. In part it forms a scientific autobiography but, more important still, these pages trace the changing attitude to some of the fundamental concepts of science which has resulted from the ideas of relativity and quantum mechanics. (A) 520

CARMAN, P. C.

Flow of gases through porous media. Butterworths, 1956. pp. ix, 182, tables, diagrs., bibliog. 30s.

The author takes the reader straight into the theory of restricted fluid flow. The technical applications of the subject are not extensively discussed, but are alluded to in numerous references. This is not a large volume so that it can be very easily read and digested by anyone who is new to the subject and yet wishes to become an expert on it. (C) 521

CRANK, J.

The mathematics of diffusion. Oxford, Clarendon Press, 1956. pp. vii, 347, tables, diagrs., bibliog. 50s.

The author's treatment of the subject is clear, but the mathematics is not elementary and the reader must be thoroughly familiar with partial derivatives, and have some knowledge of special functions. Granted this equipment he will find that the book supplies a comprehensive account of an important domain, and a guide to further study. (C) 522

GREAT BRITAIN. National Physical Laboratory

Mass spectrometer researches, by G. P. Barnard. H.M.S.O., 1956. pp. iii, 62, plates, diags., bibliog. 3s. 6d.

This book will primarily interest those working on the instrumentation and design of mass spectrometers, who will find the experimental results on the different source arrangements useful and interesting. (B) 523

GUILD, J.

The interference systems of crossed diffraction gratings: Theory of moiré fringes. Oxford, Clarendon Press, 1956. pp. viii, 152, plates, diags. 25s. *Monographs of the physics and chemistry of materials series, ed. by W. Jackson and others—vol. 15.*

This lucid little book, which is intended for the physicist rather than the engineer, deals mainly with the diffraction theory involved and the effects of grating defects on the fringe systems. The opening and closing chapters provide an interesting survey of the uses of moiré fringes and their probable importance in the field of automation. (B) 524

PROGRESS in semi-conductors.

Vol. 1: general ed. A. F. Gibson. Heywood, 1956. pp. vii, 220, plates, tables, diags., bibliog. 50s.

Recommended both to the specialist and to the man who wishes to keep abreast of developments in the related aspects of the subject, this book fills an important gap in the literature of a field which is growing so rapidly that those qualified to review the subject have generally been too much occupied with original research to tackle this problem. (C) 525

PRZIBRAM, K.

Irradiation colours and luminescence: a contribution to mineral physics; trans. [from the German] and revised in collaboration with the author by J. E. Caffyn. Pergamon Press, 1956. pp. xiv, 332, illus., tables, diags., bibliog. 63s. *Physics series, ed. by F. A. Vick and W. H. Heitler—vol. 1.*

Originally published as *Verfärbung und Luminiszenz*, Vienna, Springer-Verlag, 1953. The book summarizes the existing knowledge on the subject, and provides 49 pages of references, probably covering all important contributions to the subject, thus constituting an invaluable reference for the research worker in this field. The translator is to be commended for putting such a work into the English language. (C) 526

54 CHEMISTRY

WAGNER, W. and others

Advanced analytical chemistry, by W. Wagner, C. J. Hull and G. E. Markle. New York, Reinhold; London, C. & H., 1956. pp. v, 282, tables, diags., bibliog. 48s. or \$6.

This book is designed for the advanced student, but it should be particularly useful where a short reference text is required. A great deal of information is compressed into very little space and fairly comprehensive lists of references are frequently interspersed in the text. (B) 527

57 BIOLOGY

572 Anthropology

MITCHELL, J. C.

The Yao village: a study in the social structure of a Nyasaland tribe. Manchester U.P., on behalf of the Rhodes-Livingstone Institute, Northern Rhodesia, 1956. pp. xviii, 235, front., (port.), plates, maps, tables, diags., bibliog. 30s. (C) 528

59 ZOOLOGY

MILLER, N. C. E.

Biology of the heteroptera. L. Hill, 1956. pp. x, 162, col. front., illus., 5 plates, bibliog. 30s.

A comprehensive biology of the section of the hemiptera which comprises bugs which live on vegetable matter or by predation. There is an extensive bibliography and a list of family and sub-family names with synonyms, and representative members of all families are illustrated photographically or by line-drawings. (C) 529

6 APPLIED SCIENCES

62 ENGINEERING

621.039 Nuclear engineering

TITTERTON, E. W.

Facing the atomic future; foreword by Prof. M. L. Oliphant. London, Macmillan; New York, St. Martin's Press, 1956. pp. xi, 379, front., plates; maps, tables, diagrs. 21s. or \$5.

The author, who is a well-known nuclear scientist, provides no easy solution to the sociological and ethical problems resulting from the discovery of nuclear fission. His purpose is to make available the basic facts necessary for an understanding of the present situation for the intelligent layman. (A) 530

621.3 Electrical engineering

COCKING, W. T.

Wireless servicing manual. 9th ed. Iliffe, 1956. pp. viii, 268, xviii, tables, diagrs. 17s. 6d.

Previous ed. 1950. In a new format, there is little change in content, the principal difference being that the chapter on television receiver servicing has been dropped in favour of one on f.m. receivers. Emphasis on symptoms rather than defects makes the book invaluable to the servicing engineer and amateur. The author's considerable experience is passed on in a clear and readable manner to those who may have little theoretical knowledge of radio principles. (B) 531

FARLEY, F. J. M.

Elements of pulse circuits. Methuen, 1956. pp. viii, 143, diagrs., bibliog. *Monographs on physical subjects, ed. by B. L. Worsnop.*

Intended primarily for physicists and research workers, this book should be equally useful to radio and television engineers, university students and even sixth-form students. The basic requirement is an elementary knowledge of thermionic valves and radio receiver circuits. Mathematical statement is kept to a minimum. (B) 532

HENSON, C. S.

Solution of problems in telecommunications. Pitman, 1956. pp. x, 258, tables, diagrs., bibliography. 25s.

This book is one of the question-and-answer types of book, most of the questions being taken from past examination papers for the engineering degree of B.Sc.(Eng.) of the University of London and for the graduateship of the Institution of Electrical Engineers. It will probably be of greatest value as a ready source of worked examples. An alphabetical subject index is provided and is most useful for reference. (B) 533

HUNTER, P. V. and HAZELL, J. T.

Development of power cables. Newnes, 1956. pp. ix, 150, illus. 25s.

This book gives an authoritative survey in a very readable form which will make fascinating reading for students of electrical history. (A) 534

WALKER, A. J. ed.

Public address and sound distribution handbook: a practical guide to the planning, installation and maintenance of electronic sound amplification equipment. Newnes, 1956. pp. vii, 160, illus., tables, diagrs. 21s.

A thoroughly practical manual designed to help the engineer responsible for the installation and maintenance of sound reproduction equipment, and also of interest to the amateur. Well illustrated throughout. (B) 535

621.9 Machine tools, workshop practice

MONDAY, C.

Centre lathe work. Brighton, London, Machinery Publishing Co., 1956. pp. 158, illus., diagrs. 17s. 6d. *Machinery's standard reference series.*

A well-illustrated textbook for the lathe operator, it describes the construction and maintenance of the lathe and its various attachments, and the tools used with it, including the less-common devices, e.g. attachments for spherical and elliptical turning and for relieving. (B) 536

624 Civil engineering

COWAN, H. J.

The theory of prestressed concrete design: statically determinate structures. London, Macmillan; New York, St. Martin's Press, 1956. pp. xvii, 264, illus., tables, diagrs. 36s.

This is the first comprehensive work in the English language on the mathematical theory of the design of statically determined prestressed concrete structures. (C) 537

HENRY, F. D. C.

The design and construction of engineering foundations; with a foreword by Prof. R. H. Evans. Spon, 1956. pp. xix, 547, front., illus., plates, tables, diagrs., bibliog. 63s. *Civil engineering series, ed. by Prof. W. F. Cassie.*

The comparatively new science of soil mechanics, together with the problems associated with the design and construction of many types of foundations, including strip foundations, rafts, retaining walls, piling bridge abutments, are dealt with extensively. (C) 538

MERCHANT, W. and BOLTON, A.

An introduction to the theory of structures. Blackie, 1956. pp. x, 210, diagrs. 30s.

The treatment is clear and simple and very suitable for a college text book. Some examples, with answers are included. (B) 539

MEETHAM, A. R.

628 Sanitary engineering

Atmospheric pollution; its origins and prevention. 2nd ed. rev. Pergamon Press, 1956. pp. ix, 302, illus., tables, plates, bibliog. 63s.

Previous ed. 1952. A good rather elementary account of fuels, industrial furnaces and domestic fuel-burning equipment as a background to air pollution arising from combustion. The latter part of the book has been enlarged and includes the reports of the British Committee on Air Pollution appointed in consequence of the 1952 smog disaster. The important and widespread provisions of the Clean Air Act, which reached the Statute Book in July, 1956, were, unfortunately necessarily omitted owing to the date of publication. (A/B) 540

TAYLOR, A.

Modern cleansing appliances. Published in association with *The Commercial Motor* by Temple Press, 1956. pp. [9], 138, illus. 12s. 6d.

This book, which is amply illustrated, deals not only with general refuse collection and street cleansing appliances but also with gully and cesspool emptiers, grit spreaders, snow ploughs, disinfectant sprayers, hedge cutters and other allied appliances. (B) 541

629.113 Automobile engineering

MOTOR engineer's pocket book, comp. and arr. by A. J. Coker and G. Hemmings under the direction of E. Molloy. 4th ed. Newnes, 1956. pp. 280, tables, diagrs. 12s. 6d.

Previous ed. 1953. This book is intended as a handy reference manual for persons directly concerned with the maintenance and overhaul of road vehicles. (B) 542

63 AGRICULTURE

FARM mechanization directory, 1956-57; comp. by the staff of *Farm Mechanization*. 6th ed. London, Temple Press, 1956. pp. vii, 545, illus., tables, 25s. (B) 543

GILLESPIE, J. and HATHAWAY, P.

A textbook of general agriculture. Macdonald, 1956. pp. viii, 9-367, illus., plates, tables, diagrs., bibliog. 30s.

This book fulfills adequately the function of a basic text for students, full or part time, and is suitable for the general farmer. (B) 544

WATSON, Sir J. A. S. and MORE, J. A.

Agriculture, the science and practice of British farming. 10th ed. rev. and enl. by J. A. S. Watson and W. J. West. O. & B., 1956. pp. xii, 983, 68 plates, tables 3s. 6d.

Previous ed. 1949. The standard work on British agriculture brought up to date. (B) 545

637 Dairying

LING, E. R.

A textbook of dairy chemistry. 3rd ed. rev. Vol. 1.: Theoretical. C. & H., 1956. pp. ix, 227, tables, diagrs. 21s.

Previous ed. 1944. The author is a lecturer in dairy chemistry at the University of Nottingham and has the needs of dairy students primarily in mind, but the book will be welcomed also by dairy scientists outside the teaching profession. The section on vitamins has been considerably extended and a section on the oxidation-reduction potential of milk has been introduced into the chapter on the physical properties of milk. (B) 546

THOMASON, A. G.

The small dairy farm. Black, 1955 [1956]. pp. 122, plates, tables. 12s. 6d.
A practical guide to running a small dairy farm. (B) 547

65 COMMUNICATIONS AND COMMERCE

651/652 Office management

BRITISH INSTITUTE OF MANAGEMENT

The measuring of work in the office. London, the Institute, 1956. pp. vii, 20, diags. 4s. *Office management series*—2.

Deals with the problems of applying work study methods to office work. (B) 548

CANNING, R. G.

Electronic data processing for business and industry. New York, Wiley; London, C. & H., 1956. pp. xi, 332. 56s. or \$97.

An authoritative study of all aspects of the application of machines to business organization. (B) 549

KOZMETSKY, G. and KIRCHER, P.

Electronic computers and management control. New York, London, [etc.] McG-H., 1956. pp. vii, 296, tables, diagr. 37s. 6d. or \$5.

(B) 550

OFFICE APPLIANCE AND BUSINESS EQUIPMENT TRADES ASSOCIATION

The manual of modern business equipment. London, Macdonald and Evans for the Association, 1956. 5 vol., illus., diags. 4s. 6d. per vol. Part 9: Accounting and book-keeping machines (keyboard operated). Part 10: Visible record and reference equipment. Parts 11 and 12: Adding and calculating machines. Part 13: Telegraphy in business.

(B) 551

OFFICE MANAGEMENT ASSOCIATION

Clerical salaries analysis, 1956, as at 1st March, 1956. London, the Association, 1956. pp. 78, tables, diags. 30s.

(D) 552

655 Printing, publishing, book-trade

BARKER, R. E.

Books for all: a study of international book trade. Paris, Unesco; [London, H.M.S.O.], 1956. pp. 102, tables. 15s. or 750 fr.

Study of the statistics of book production in the main countries of the world, with a chapter on libraries and book exchanges. (B) 553

657 Accountancy

BRITISH INSTITUTE OF MANAGEMENT

Invoicing methods. London, the Institute, 1956. pp. v, 130, illus., diags. 12s. 6d. *Office management series*—1.

Reviews equipment and methods of all types. Drawn up by a joint committee of the British Institute of Management and the Office Management Association. (B) 554

658 Industrial management

GREAT BRITAIN. Department of Scientific and Industrial Research

Automation: a report on the technical trends and their impact on management and labour. H.M.S.O., 1956. pp. viii, 106, illus., tables, diags., Bibliog. 6s.

The report is a concise statement of current thinking on this subject, directed not only to management and workers, but also to the general reader who requires a clear and unbiased statement and the technical and economic issues involved. A select bibliography is included. (A) 555

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. European Productivity Agency

Job analysis: a tool of productivity. Paris, O.E.E.C.; [London, H.M.S.O.], 1956. pp. 66, tables. *Project no. 231*. 4s. 6d. or 230 fr.

Notes prepared for a conference on job analysis held by the International Labour Office on November, 1955. (B) 556

66 CHEMICAL TECHNOLOGY

BREWING: theory and practice, 3rd ed. rev. and enl. by E. J. Jeffery. Kaye, 1956. pp. 414, illus., plates, tables, diagrs. 30s.

Previous ed. pub. as *Brewing: a book of reference*, 1947. Originally pub. privately by G. Clarke & Son, Ltd., 1936. Although described as a 3rd ed., this book has been largely rewritten, eliminating the short comings but retaining the many commendable features of its forerunner, and should prove admirable for those who require a reliable account of its more practical aspects. (B) 557

OTHMER, D. F. *ed.*

Fluidization. New York, Reinhold; London, C. & H., 1956. pp. ix, 231, illus, tables, bibliog. 56s. or \$7.

Nine papers on chemical processes using fluidized beds presented at a conference in the U.S.A. by American specialists. The treatment is authoritative and the information is presented clearly and concisely. Recommended to development and process chemists and to chemical engineers. (C) 558

669 Metallurgy

DEARDEN, J.

Iron and steel to-day. 2nd ed. O.U.P., 1956. pp. 271, plates, tables, diagrs. 12s. 6d. *Pageant of progress series, ed. by J. W. Bispham—no. 13.*

Previous ed. 1939. This book gives a readable account of the making and processing of iron and steel for those who desire a general knowledge of the subject. It would provide useful first reading for students just commencing metallurgical or engineering studies. (B) 559

67/68 MANUFACTURES

674 Timber

GREAT BRITAIN. Forest Products Research Laboratory

A handbook of hardwoods. H.M.S.O., 1956. pp. v, 269, tables. 17s. 6d.

Gives in detail the physical characteristics of over 200 species of hardwood, not confined to Empire and homegrown woods. Should prove of great assistance to anyone in the timber and timber-consuming industries. Tables of properties, types of saws and kiln schedules are included. (A) 560

677 Textiles

SWALE, W. E.

Electricity in textile industries. National Trade Press, 1956. pp. ix, 244, illus., tables, diagrs., bibliog. 30s.

The author would appear to have succeeded reasonably well in achieving his limited aim of providing a simple account "for all those who use—and pay for—electricity". (B) 561

681 Fine mechanics

FRIEDMAN, B. D.

Punched card primer. [Chicago], Public Administration Service, 1955. pp. vii, 77, illus., tables, diagrs. \$3.50.

An elementary introduction to machine-sorted punched cards, covering equipment available in the United States, and organizational problems involved in its use. (A) 562

SPREDBURY, F. G.

Electronic measurements and measuring instruments. Constable, 1956. pp. ix, 459, illus., tables, diagrs., bibliog. 50s.

This most useful book, which covers the subject adequately, is principally descriptive with also a certain mathematical content up to easy calculus. A knowledge of basic electronics is assumed. (B) 563

WILKES, M. V.

Automatic digital computers. Methuen, 1955. pp. x, 305, plates, tables, diagrs., bibliog. 42s.

Essentially this book gives the alphabet, orthography and syntax of current automation, and is indispensable for all wishing to use automatic computers for commerce translation, logic, etc., as well as explicitly mathematical ends. (B) 564

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

- A. & U.: Allen & Unwin
- C. & H.: Chapman and Hall
- C.U.P.: Cambridge University Press
- H.M.S.O.: Her Majesty's Stationery Office
- L.G.: Longmans, Green
- McG.-H.: McGraw-Hill
- O. & B.: Oliver and Boyd
- O.U.P.: Oxford University Press

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Aslib Book-List



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October 1956

Volume 21

Number 10

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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Volume 21

Number 10

October 1956

001 GENERAL KNOWLEDGE

001.8 Methods of intellectual work

STOCKHOLM. Ingeniörsvetenskapsakademien. Who's who and what in scientific technical research in Sweden. Part 2: Research activities in universities, academies, government councils, committees and institutes, and state-supported industrial branch institutes, scientific associations. Stockholm, the Academy, 1955. pp. 183.

Gives quite full notes on subjects of research, libraries and staff. No index. (D) 565

002 DOCUMENTATION

WASSERMAN, P. Information for administrators: a guide to publications and services for management in business and government. Ithaca, New York, Cornell, 1956. pp. xv, 375, diagr. *Cornell studies in policy and administration*. \$6.

Chapters deal partly with sources, partly on subjects. Reference works and the activities of institutions are described rather than evaluated, and bibliographical information is sketchy. Not intended for advanced workers. (B) 566

02 LIBRARIANSHIP

ASSOCIATION OF METROPOLITAN CHIEF LIBRARIANS

Directory of metropolitan public libraries. London, the Association, 1956. pp. [72] mimeographed. 5s. [Obtainable from St. Pancras Public Library.]

Gives details of stocks, special collections, facilities at branches as well as central libraries, and full details of allocations under the Metropolitan Special Collections, Joint Fiction Reserve, and Language Specialization schemes. (B) 567

NORTHWESTERN UNIVERSITY. School of Law

List of subject headings for small to medium sized law libraries (mainly Anglo-American); comp. by H. McLaury. Chicago, the School, 1956. pp. xii, 97. \$3.25.

(D) 568

3 SOCIAL SCIENCES

301 Sociology

SOULE, G.

What automation does to human beings. Sidgwick & Jackson, 1956. pp. vii, 184. 15s.

Originally published as *Time for living*, New York, Viking Press, 1955. The author shows how the development of automation, resulting in greater productivity, shorter working hours and more leisure, has developed in America and goes on to describe the effect that this change may have on society. The argument is developed logically from known facts and presented with conviction. (A) 569

33 ECONOMICS

HANSON, J. L.

Monetary theory and practice. Macdonald & Evans, 1956. pp. xiv, 360, tables, diagrs., bibliog. 30s.

A competent and substantial book that is more than a text-book and includes sections on French and Australian banking. (B) 570

MEREWETHER, E. R. A.

Industrial medicine and hygiene, with a foreword by Lord Horder. Vol. 3. Butterworth, 1956. pp. vii, 617, illus., tables, diagrs., bibliog. 63s.

(C) 571

34 LAW

341 International Organizations

EUROPEAN yearbook; published under the auspices of the Council of Europe. Vol. II. The Hague, Nijhoff, London, Basford, 1956. pp. xx, 727, tables. Articles on recent developments in international organizations in Europe together with legislative texts. Papers mostly given in both French and English. (D) 572

37. EDUCATION

ASSOCIATION OF TEACHERS IN COLLEGES AND DEPARTMENTS OF EDUCATION

The supply of mathematics and science teachers: a survey of students in training by a sub-committee of the Association. Methuen for the Association, 1956. pp. vi, 56, tables, diagrs. 3s. 6d.

Shows how far the number of teachers in training taking science or mathematics as a main subject falls short of requirements. (B) 573

GARDNER, D. E. M.

The education of young children. Methuen, 1956. pp. 118, table. 7s. 6d.

Primarily addressed to teachers in nursery schools, but also of value to parents of young children. (A) 574

GREAT BRITAIN. Ministry of Education

Education, being the report of the Ministry of Education and the statistics of public education for England and Wales, 1955. H.M.S.O., 1956. pp. iv, 229. 9s. 6d. Cmd. 9785.

(D) 575

4 PHILOLOGY

413 Dictionaries

POLANYI, M.

Dictionary of textile terms (German-English, English-German). Pergamon Press, 1956. pp. vii, 328. 60s.

The emphasis is on the vocabulary of bleaching, dyeing and finishing processes. It is not in the same category as Schloman or Paterson, but it may help to fill the gap. (D) 576

5 NATURAL SCIENCES

51 MATHEMATICS

BURKILL, J. C.

The theory of ordinary differential equations. New York, Interscience; Edinburgh and London, O. & B., 1956. pp. ix, 102, diagrs., bibliog. \$1.55 or 8s. 6d. *University mathematical texts*, ed. by A. C. Aitken and D. E. Rutherford.

A short but authoritative introduction to existence theory. (B) 577

MCLACHLAN, N. W.

Ordinary non-linear differential equations in engineering and physical sciences. 2nd ed. Oxford, Clarendon Press 1956. pp. ix, 271, tables, diagrs., bibliog. 35s.

The first English book on this topic, originally published in 1950, has two new chapters, on the phase-plane method and on fluid flow. The main text has been revised. (C) 578

52 ASTRONOMY

GREAT BRITAIN. Department of Scientific and Industrial Research. *National Physical Laboratory*

Photometry of telescopes and binoculars. H.M.S.O., 1956. pp. 18. 2s.
National Physical Laboratory notes on applied science, no. 14.

(C) 579

53 PHYSICS

DIN, F., ed.

Thermodynamic functions of gases. Butterworths, 1956. 2v. 63s. per vol.

Vol. 1: Ammonia, carbon dioxide and carbon monoxide. Vol. 2: air, acetylene, propane and argon. First the available data is dealt with, then the calculation of thermodynamic functions and construction of diagrams, followed by full discussion and presentation of the data in tabular form. Vol. 1 contains a stimulating article on the preparation of thermodynamic diagrams.

(C) 580

EMSLEY, H. H.

Aberrations of thin lenses: an elementary treatment for technicians and students. Constable, 1956. pp. xvi, 352, front., tables, diagrs., bibliog. 50s.

This book helps to bridge the gap between elementary text-books on geometrical optics and advanced treatises on optical design and lens computations and should be useful to scientists in industry interested in design or assembly of special optical systems.

(B) 581

MCVITTIE, G. C.

General relativity and cosmology. C. & H., 1956. pp. x, 198. 42s. *International astrophysics series—vol. 4; ed. by M. A. Ellison and A. C. B. Lovell.*

Contains an account of the basic principles of the theory of general relativity and its application to the gravitational field of the sun. Cosmology is also treated.

(C) 582

TOWNSEND, A. A.

The structure of turbulent shear flow. C.U.P., 1956. pp. xii, 315, diagrs., bibliog. 40s. *Cambridge monographs on mechanics and applied mathematics*, ed. by G. K. Batchelor and H. Bondi.

(C) 583

539 Atomic energy

PROCESS Chemistry. Vol. 1; ed. F. R. Bruce and others. Pergamon Press, 1956. pp. xii, 407, plates, tables, diagrs., bibliog. 84s. *Progress in nuclear energy—series 3.*

Covers all aspects of the processing of uranium, plutonium and thorium, from extraction chemistry of fissile materials to separation of useful isotopes produced as by-products of the nuclear reaction. Considerable space is devoted to separation processes for recovery of unconsumed fuel and for the isolation of fissile material produced in the reactor.

(C) 584

54 CHEMISTRY

CLARK, S. J.

Quantitative methods of organic microanalysis. Butterworths, 1956. pp. x, 253, illus., tables, diagrs., bibliog. 30s.

A very considerable amount of information which is not readily available is collected and presented in an attractive manner. The book is recommended to practising microanalysts.

(B) 585

GRASSIE, N.

The chemistry of high polymer degradation processes. Butterworths, 1956. pp. xv, 335, tables. 42s.

The author takes a wide view of his subject, including depolymerization, chemical degradation and breakdown by deterioration of polymer molecules. All these are treated from a scientific rather than a technological point of view. The presentation is lucid, and the treatment comprehensive. There is no other modern account of the full range of topics discussed. Each chapter is followed by a bibliography.

(C) 586

549 Mineralogy

SMITH, H. G.

Minerals and the microscope. 4th ed. completely rev. by M. K. Wells, Murby, A. & U., 1956. pp. [9], 149; 2 fronts. (1 col.), 12 plates, tables, diagrs., bibliog.

- Previous ed. 1933. This small reference book has been completely re-written for the 4th edition with more emphasis on microscopic examination of minerals. It is well-suited to the needs of geology students at an elementary level. (B) 587

55 GEOLOGY

WILLS, L. J.

Concealed coalfields: a palaeogeographic study of the stratigraphy and tectonics of mid-England in relation to coal reserves. Blackie, 1956. pp. xiii, 208, plates, maps, tables, diagrs., bibliog. 40s.

(C) 588

57 BIOLOGY

ASIMOV, I.

The chemicals of life: enzymes, vitamins, hormones. Bell, 1956. pp. [11], 159, illus., diagrs. 12s. 6d.

Should give the layman and the sixth-form science student a fair view of some of the substances that interest the physiological chemist.

(A) 589

HILDITCH, T. P.

The chemical constitution of natural fats. 3rd rev. ed. C. & H., 1956. pp. xix, 664, illus., tables, diagrs., bibliog. 95s.

Previous ed. 1947.

(C) 590

58 BOTANY

MACHLIS, L., and TORREY, J. G.

Plants in action: a laboratory manual of plant physiology. San Francisco, Freeman, 1956. pp. vi, 282, illus., tables, diagrs. 31s. 6d.

Essentially a manual for use in laboratories but appears to have been very well compiled.

(B) 591

59 ZOOLOGY

UNDERWOOD, E. J.

Trace elements in human and animal nutrition. New York, Academic Press; London, Academic Books, 1956. pp. 430. \$9.50 or 76s.

(C) 592

6 APPLIED SCIENCES

61 MEDICINE

614 Public health

GREAT BRITAIN. Committee on Synthetic Detergents

Report. H.M.S.O., 1956. pp. iv, 60, plate, tables, bibliog. 3s.

Topics covered include possible hazards to the user, problems of sewage disposal and effect on water supplies, methods of chemical analysis and review of the structure of typical detergents.

(C) 593

MEDICAL RESEARCH COUNCIL

The hazards to man of nuclear and allied radiations. H.M.S.O., 1956. pp. viii, 128, tables, diagrs., bibliog. 5s. 6d. Cmd. 9780.

Considers the effects of radiation on the health of the individual and the possible genetic consequences to the population as a whole.

(C) 594

62 ENGINEERING

GRIGOR'EV, I. A.

Measurement of small holes: a translation [from the Russian] of *Izmerenie malykh otverstii*. H.M.S.O., 1956. pp. x, 137, illus., tables, diagrs., bibliog. 8s. 6d.

A detailed survey of various methods for measuring holes of diameters from 0.1 to 18 mm. The methods described include limit-plug and taper-pin gauges, combined optical and mechanical instruments, string method, electric and pneumatic contact methods and the newly-developed contactless electrical and pneumatic methods. (B) 595

THIRRING, H.

Power production: the practical application of world energy. Harrap, 1956, pp. 399, tables, diagrs., bibliog. 25s.

The object of this book is to provide a comprehensive survey of possible means of power production. It gives information on available sources of energy, points out the relative merits and drawbacks of different methods, includes interesting historical facts and should appeal to a wide public. (4) 596

TOWN, H. C., and COLEBOURNE, R.

Engineering inspection, measurement and testing. Odhams, 1956. pp. 192, front., illus., tables, diagrs. 21s.

Explains the function of the modern factory inspection department and describes methods of measurement and testing. Later chapters deal with the principles and practice of precision measurement, comparators and other measuring and inspection machines. (B) 597

621 Mechanical engineering

JAEGER, C.

Engineering fluid mechanics. Blackie, 1956. pp. xviii, 529. Plates, tables, diagrs. 60s.

Originally published as *Technische Hydraulik*, Basle, Birkhäuser, 1949. Expertly illustrated and contains considerable additions to the German original, this is a specialized text-book that is likely to be a standard work of reference for many years, particularly in the field of unsteady flow problems. (C) 598

SHEPHERD, D. G.

Principles of turbomachinery. New York, London, Macmillan, 1956. pp. xi, 463. 56s.

A unified treatment of all forms of turbines, including pumps, fans, compressors, steam, gas and hydraulic turbines. (B) 599

621.3 Electrical engineering

GARNER, R. H.

Mechanical design for electronic engineers. Newnes, 1956. pp. vii, 223, illus., tables, diagrs. 25s.

Intensely practical and contains much information on such subjects as rack systems, general construction, ventilation, furnishing, processes, and an extensive chapter on codes of practice. (B) 600

MORTLOCK, J. R.

A.C. switchgear. Vol. 1. A survey of requirements. C. & H., 1956. pp. xi, 287, illus., tables, diagrs. 50s. *Advanced engineering textbooks*.

This volume is concerned chiefly with transients arising under faulty conditions in large systems. (C) 601

WARBURTON-BROWN, D.

Induction heating practice: a handbook on the high-frequency induction process for all concerned with engineering production. Odhams, 1956. pp. 192, illus., diagrs. 21s.

This book illustrates the possibilities of induction heating for soldering, brazing and hardening of a variety of components and assemblies. Dealing with the practical aspects of inductor coil design, and avoiding technicalities, it will be of value to production engineers. (B) 602

621.4 Internal combustion and heat engines

PARSON, N. A.

Guided missiles in war and peace. Cambridge (Mass.), Harvard U.P.; London, O.U.P., 1956. pp. xii, 161, front., illus., diags., bibliog. \$3.50 or 28s.

(A) 603

621.8 Power transmission

HARDY, H. W.

Planetary gearing (design and efficiency). Brighton, Machinery Publishing Co., 1956. pp. 59, tables, diags. 4s. 6d. *Yellow back series—no. 37.*

The author deals clearly with relative speeds and direction of rotation of the various members of the unit, the reduction ratio, determination of tooth and bearing loads and efficiency under load and power conditions. The book should be of great value to design engineers.

(B) 604

628 Sanitary engineering

VEAL, T. H. P.

The disposal of sewage: a textbook for the use of engineers, sanitary inspectors and students. 3rd ed. rev. C. & H., 1956. pp. xii, 208, front., illus., plates, tables, diags. 30s.

Previous ed. 1939. A general account, intended primarily for students of the principles and methods of sewage treatment.

(B) 605

STRAFFORD, N., ed.

The determination of toxic substances in air: a manual of ICI practice. Cambridge, Heffer, 1956. pp. xvii, 226, plates, tables, diags., bibliog. 35s.

(C) 606

629.113 Automobile engineering

IRVING, P. E.

Tuning for speed: how to increase the performance of a standard motorcycle engine for racing and competition work, by P. E. Irving in association with the staff of *Motor Cycling*. 3rd ed. Temple Press, 1956. pp. viii, 291, illus., diags., tables. 7s. 6d.

A practical guide for the private owner who has adequate workshop facilities and wishes to obtain the best performance from his machine.

(B) 607

63 AGRICULTURE

CRAMPTON, E. W.

Applied animal nutrition: the use of feedstuffs in the formulation of livestock rations. Drawings by E. L. Gillespie. San Francisco, Freeman; London, Bailey & Swinfen, 1956. pp. xx, 458, tables, diags., bibliog. 55s. 6d. *College texts in agricultural science.*

A serious attempt to link more closely the teaching of animal nutrition with feeds and feeding-stuffs in practical animal husbandry. The formulae are designed for Canadian and U.S. conditions and practices and livestock dealt with most fully are cattle and sheep.

(D) 608

SANDERSON, E. D.

Insect pests of farm, garden and orchard. 5th ed. New York, Wiley; London, C. & H., 1956. pp. ix, 661, illus. 68s.

Most of the text has been re-written and contains information on more than sixty new pest species as well as descriptions, and classification of insects includes control measures against them.

(B) 609

637 Dairying

ASHTON, E. D.

Milk and butterfat recording: a world survey. Farnham Royal (Bucks), Commonwealth Agricultural Bureaux, 1956. pp. x, 205, front., illus., tables, diags., bibliog. 30s. *Commonwealth Bureau of Dairy Science and Technology technical communications—no. 3.*

A history of milk recording from the earliest organization in 1895 in Denmark and a survey of the movement in different countries to the present day.

(C) 610

- SIMON, A.
 Cheeses of the world. Faber, 1956. pp. il, 255, col. front., col. plates, tables, maps. 30s.
 A most enjoyable review of cheeses made throughout the world, followed by fifty-four pages of cheese recipes from Europe and America. (A) 611

65 COMMUNICATIONS AND COMMERCE

- BRILLOUIN, L.
 Science and information theory. New York, Academic Press, 1956. pp. xvii, 320, tables, diags. \$6.80.
 As well as explaining the theory, discusses its applications to experimental design, reading and writing, and organizations. (B) 612

651/652 Office management

- LEVIN, H. S.
 Office work and automation. New York, Wiley; London, C. & H., 1956. pp. xvi, 203, tables, diags. \$4.50 or 36s.
 Discusses in non-technical language the application of both new electronic techniques and scientific methods such as operational research to office work. (A) 613

653 Industrial management

- ANSTEY, E., and MERCER, E. O.
 Interviewing for the selection of staff; foreword by the Rt. Hon. Lord Piercy. A. & U. for the Royal Institute of Public Administration, 1956. pp. 111, illus., tables. 10s. 6d.
 This book has been prepared by two psychologists to assist those who have to conduct interviews. They emphasize that nothing will replace experience but show how that experience may be obtained even with intermittent practice. (B) 614

- MELMAN, S.
 Dynamic factors in industrial productivity. New York, Wiley; Oxford, Blackwell, 1956. pp. xiii, 238, tables, diags. \$9.75 or 22s. 6d.
 An analysis of mechanization and of the use of staff in manufacturing industry. (C) 615

- WINSLET, V. G.
 Multiple shop companies: organization and management. 3rd ed. Gee, 1956. pp. 136. 21s.
 Previous ed. 1949. (B) 616

66 COMMERCIAL TECHNOLOGY

- JONES, G. O.
 Glass. Methuen, 1956. pp. vi, 119, front., tables, diags., bibliog. 8s. 6d.
Monographs on physical subjects ed. by B. L. Worsnop.
 A work of substance that may be regarded as a significant addition to our understanding of the vitreous state. Students and glass scientists will benefit from it. (B) 617

- MARTIN, G.
 The modern soap and detergent industry. Vol. 3: The manufacture of glycerol. 2nd ed. rev. and enl. by H. J. Stranz. Technical Press, 1956. pp. xi, 218, illus., plates, tables, diags., bibliog. 84s.
 Various paging. Previous ed. 1926. First sections deal with the preparation of crude and distilled glycerol, the emphasis being on the manufacturing processes. Then follow brief chapters on other methods of preparation, and the latter part of the book contains statistics. All this has been brought up to date. (C) 618

- NORTON, F. H.
 Ceramics for the artist potter. Cambridge (Mass.), Addison-Wesley, 1956. pp. 320, illus. \$10 or 80s.
 (A) 619

SCHWITZER, M. K.

Margarine and other food fats: their history, production and use. Hill, 1956. pp. xvi, 385, illus., plates, tables, diagrs., bibliog. 46s.

Intended primarily for the industrial chemist and technologist engaged in the edible fats industry, this work by an acknowledged authority in this field reviews the history, production and use of manufactured edible fats and raw materials used. (C) 620

669 Metallurgy

NORTHCOTT, L.

Molybdenum. Butterworths, 1956. pp. xfi, 222, illus., tables, diagrs., bibliog. 40s. *Metallurgy of the rare metals series—no. 5.*

A readable reference book on the metallurgical, chemical and physical characteristics of the metal that contains much up-to-date information, many references for further reading, and a valuable chapter on alloys of molybdenum covering the classification of equilibrium diagrams. (C) 621

67/68 MANUFACTURES

676 Paper

PRINTING, PACKAGING AND ALLIED TRADES RESEARCH ASSOCIATION. Buying lithographic papers and boards. Leatherhead, the Association, 1956. pp. [18], cards. 15s. (5s. to members).

(B) 622

678 Rubber

BUIST, J. M.

Ageing and weathering of rubber. Heffer, 1956. pp. viii, 143, plates, tables, diagrs., bibliog. 25s. *Institution of the Rubber Industry monograph no. 2.*

Deals with the theory and prevention of degradation of rubbers. One chapter is devoted to the classification and description of the 125 antioxidants. (C) 623

69 BUILDING

HUTCHINSON, F. W.

Design of heating and ventilating systems. New York, Industrial Press, 1955. pp. 308, illus. \$7.

Determination of load, fuels and combustion; air distribution; design of conventional heating, panel and solar heating. A theoretical work. (C) 624

7 FINE ARTS

739 Artistic metalwork

JACOBSTHAL, P.

Greek pins and their connexions with Europe and Asia. Oxford, Clarendon Press, 1956. pp. xvi, 250, 650 illus. 8 gns. *Oxford monographs on classical archaeology ed. by J. D. Beazley and P. Jacobsthal.*

A standard work on the subject.

(B) 625

9 HISTORY, GEOGRAPHY

92 BIOGRAPHY

TRAVERS, M. W.

A life of Sir William Ramsay, K.C.B., F.R.S. Edward Arnold, 1956. pp. viii, 308, front., plates (incl. ports.), facsimis, tables, diagrs. 50s.

A first-class scientific biography. Chemists will be particularly interested in the chapters in which the discoveries of argon, helium, neon, krypton and xenon, and Ramsay's work on radium are described in detail, with many facsimiles of letters and laboratory notebooks. (B) 626

931/936 Ancient history

WISEMAN, F. J.

Roman Spain: an introduction to the Roman antiquities of Spain and Portugal. Bell, 1956. pp. viii, 232, plates, plans. 18s. 6d.

A useful summary of up-to-date information.

(B) 627

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin
C. & H.: Chapman and Hall
C.U.P.: Cambridge University Press
H.M.S.O.: Her Majesty's Stationery Office
L.G.: Longmans, Green
McG.-H.: McGraw-Hill
O. & B.: Oliver and Boyd
O.U.P.: Oxford University Press.

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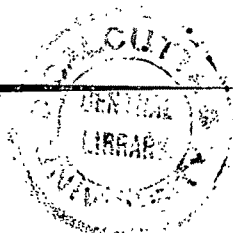
Erratum: Vol. 21, No. 8, page 8, item 494, annotation 'chromophotography' should read 'chronophotography'.

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Aslib Book-List



A MONTHLY LIST
OF RECOMMENDED SCIENTIFIC
AND TECHNICAL BOOKS
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November 1956

Volume 21 Number 11 Nos. 628-690

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PREFACE

THE aim of the Aslib Book-List is to provide a list of recommended recently published books in the fields of science and technology, agriculture, social science, education, industrial organization, architecture, building and documentation, and general reference works. Where possible a brief annotation is added to indicate the scope of the book or the reasons for its recommendation. Recommendations are normally restricted to books in the English language, but an exception may be made for an outstanding foreign work.

In compiling the list, Aslib relies on the recommendations made by a number of subject specialists and special librarians, and without their help and co-operation such a list would not be possible.

The entries are arranged by the Universal Decimal Classification and are further classified by the following symbols:

- (A) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.
- (B) Books of an intermediate degree of technicality or suitable as textbooks for students.
- (C) Books of an advanced or specially technical character.
- (D) Directories, dictionaries, handbooks, lists and catalogues, encyclopaedias, year-books and similar publications.

The regular transactions of societies are not included; nor are British Standard Specifications (except bound volumes). Any inquiry regarding the latter should be made direct to the B.S.I., 2 Park Street, London, W.1.

The place of publication is London, unless otherwise stated. The form of entry of references is based on British Standard Specification 1629:1950.

An index is issued with the last number of each volume.

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Volume 21

Number 11

November 1956

01 BIBLIOGRAPHY

JOINT UNIVERSITY COUNCIL FOR SOCIAL STUDIES AND PUBLIC ADMINISTRATION
Bibliography of social work and administration; a classified list of articles from selected British periodicals. Third supplement, 1955. The Council, 1956. pp. 42, mimeographed. 5s.

(D) 628

02 LIBRARIANSHIP

BROWN, C. H.

Scientific serials: characteristics and lists of most cited publications in mathematics, physics, chemistry, geology, physiology, botany, zoology, and entomology; with a section by Roger V. Krumm. Chicago, Association of College and Reference Libraries, 1956. pp. xv, 189. \$4.25. A.C.R.L. *Monographs*, no. 16.

A serious attempt to apply the study of the frequency of citation of scientific journals to the problems of selection and storage of journals in learned libraries. (B) 629

SHERA, J. H., and EGAN, M. E.

The classified catalog: basic principles and practices; with a code for the construction and maintenance of the classified catalog, by Jeannette M. Lynn and Zola Hilton. Chicago, American Library Association, 1956. pp. xiii, 130, tables, diagrs. \$4.

This book, being the product of awakening interest in the classified catalogue among American librarians will seem a little elementary to British librarians but is valuable as the only full-length study of the subject. (B) 630

ASLIB

Year book, 1956-1957. London, Aslib, 1956. pp. 172. 12s. 6d. (10s. to members).

Contains annual report, lists of members, supply of library equipment, and library organisations, reading lists on information work, and the Memorandum and Articles of Association of Aslib. (D) 631

SPECIAL LIBRARIES ASSOCIATION. Science-Technology Division

Handbook of scientific and technical awards in the United States and Canada, 1900-1952; ed. by Margaret A. Firth. New York, the Association, 1956. pp. xxv, 491. \$10.

Describes the purpose of each award, and lists the holders with references to sources of biographical information. (D) 632

01 PHILOSOPHY

159.9 Psychology

CAPLAN, G., ed.

Emotional problems of early childhood. Tavistock Publications, 1955. pp. xiv, 544, tables, diagrs., bibliog. 42s.

Originally published Toronto, Clarke, Irwin, 1955. This collection of papers is valuable as a survey of progressive work in child psychotherapy. It will be of direct use to child guidance workers and of great interest to nurses and teachers who want to keep up with a field of work bordering on their own. (C) 633

3 SOCIAL SCIENCES

31 STATISTICS

ELY, D.

An introduction to British economic statistics. C.U.P., 1956. pp. vii, 255, tables. 22s. 6d.

(B) 634

32 POLITICAL SCIENCE

ROBERTS, H. L.

Russia and America, dangers and prospects. Foreword by J. McCloy. N.Y., Harper for the Council on Foreign Relations, 1956. pp. xxxvi, 251. \$3.50.

(B) 635

33 ECONOMICS

GARNER, J. F.

The public control of land. Sweet & Maxwell, 1956. pp. xiii, 204, tables. 35s.

Describes controls by local authorities and central government in their widest applications: town and country planning, housing, public health, sea and rivers. (C) 636

YEAR book of agricultural co-operation: edited by the Horace Plunkett Foundation. Oxford, Blackwell, 1956. pp. v, 384, tables, bibliog. 30s.

The outstanding articles are papers on recent land reforms in Italy and Egypt and on modern developments in Yugoslav agricultural co-operation, others deal with fisheries, rural education and agricultural settlement, as well as pure agricultural co-operation. (C) 637

PLUNKETT, H. G. S., and HOSKING, G. A.

A guide to retirement and other annuities under the Finance Act, 1956. Sweet & Maxwell; Stevens & Sons, 1956. pp. viii, 111, tables. 9s. 6d.

An explanation of the new legislation by which more than ten million people are now able to obtain pensions with the cost allowable as an expense for tax purposes. (B) 638

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION

Engineering industries in Europe: a study by the Machine Committee. Paris, O.E.E.C.; London, H.M.S.O., 1956. pp. 207. \$1.50 or fr. 500 or 10s. (A) 639

WU, YUAN-LI

An economic survey of communist China. N.Y., Bookman; London, Constable, 1956. pp. x, 566, maps, tables, diagrs., bibliog. 63s.

An exhaustive survey covering recent economic history through the period of rehabilitation of the economy, the major phases of land reform and the squeeze on private enterprise. (C) 640

35. PUBLIC ADMINISTRATION

UPJOHN INSTITUTE FOR COMMUNITY RESEARCH

Public works and employment from the local government point of view; a report of the Institute [by] Eugene C. McKean [and] Harold C. Taylor. Chicago, Public Administration Service, 1955. pp. 274, tables, bibliog. \$5.

A valuable appraisal that raises serious doubts as to the potency of timed public works in alleviating depression. (C) 641

36 WELFARE AND INSURANCE

361 Social relief

HOLBORN, L. W.

International Refugee Organization: a specialized agency of the United Nations: its history and work, 1946-1952. O.U.P., 1956. pp. 805, plates, maps. \$7.20 or 45s.

(B) 642

368 Insurance

BUGLASS, L. J.

General average and marine insurance in the United States: a comparison with English law and practice. Witherby, 1956. pp. [7], 66. 8s. 6d.

A reprint of articles published in the technical press. The aim is to pin-point differences in the law, not to present a comprehensive treatise. (B) 643

CHALMERS, Sir M.

Marine Insurance Act, 1906. 5th ed. by J. M. Holden and C. B. Drover. Butterworth, 1956. pp. liv, 221, 26, tables, bibliog. 45s.

Previous ed. 1932. A commentary on the Act and on clauses in insurance contracts. (B) 644

MEHR, R. I., and OSLER, R. W.

Modern life insurance: a text-book of income insurance. Revised ed. N.Y., London, Macmillan, 1956. pp. xvii, 747, illus., tables. 48s. 6d.

Previous ed. 1949. A comprehensive treatise on life insurance in the United States. (B) 645

37 EDUCATION

GREAT BRITAIN, Ministry of Education

Modern languages. H.M.S.O., 1956. pp. vii, 111. 3s. *Pamphlets, new series—no. 29.*

A critical examination of the problems involved in the teaching of modern foreign languages. (B) 646

PEDLEY, R.

Comprehensive education: a new approach. Gollancz, 1956. pp. 203. 13s. 6d.

A critical examination of the selection procedure at the age of eleven, and a scheme for drastic reorganization of the public system of primary and secondary education. (B) 647

RICHMOND, W. K.

Education in the U.S.A.: a comparative study. Redman, 1956. pp. 227, tables, diagr. 12s. 6d.

An account of educational administration in the U.S.A. and the teacher's place in American democracy. (B) 648

The YEAR book of education: education and economics; joint editors R. K. Hall and J. A. Lauwerys, assistant editor B. Holmes. Published in association with the University of London Institute of Education and Teachers College Columbia University, by Evans, 1956. pp. xii, 595, tables, diagrs. 63s.

The demand for education, the resources available for it, and the management of those resources. (D) 649

38 TRADE, TRANSPORT, COMMUNICATIONS

WOYTINSKY, W. S., and WOYTINSKY, E. S.

World commerce and governments: trends and outlook. N.Y., Twentieth Century Fund, 1955. pp. liii, 907, maps. \$10.

(B) 650

5 NATURAL SCIENCES

51. MATHEMATICS

ADAMS, J. K.

Basic statistical concepts. McG. H., 1955. pp. xvi, 304, tables, diagrs., bibliog. 41s. 6d.

(B) 651

FISHER, Sir R. A.

Statistical methods and scientific inference. Edinburgh, London, O. & B., 1956. pp. viii, 175, tables, diagrs., bibliog. 16s.

This essay is an examination of the logical nature of uncertain inference written largely from a critical-historical point of view. (C) 652

52 ASTRONOMY

WATSON, F. G.

Between the planets, 2nd ed. Harvard UP., 1956. pp. 188, plates, diagrs. \$5.95 or 30s. *Harvard books on astronomy*.

A simply written, well illustrated study of asteroids, comets, meteors, and meteorites, containing a fair amount of material not found in the first edition. (B) 653

53 PHYSICS

NORTH ATLANTIC TREATY ORGANISATION. *Advisory Group for Aeronautical Research and Development. Combustion Colloquium, 1955, Paris*

Selected combustion problems. Vol. 2. Transport phenomena; ignition; altitude behaviour and scaling of aeroengines. Butterworth, 1956. pp. viii, 495, plates, tables, diagrs., bibliog. 90s.

Contributions in English and French. The papers are grouped under aircraft engines and fuels; ignition and flammability; transport properties; high altitude combustion problems; similarity, scaling, and fundamental parameters. (C) 654

HINE, G. J., and BROWNELL, G. L., eds.

Radiation dosimetry. N.Y., Academic Press, 1956. pp. 932, illus. \$22 or 157s.

The first unified presentation of problems of dosimetry associated with the use of ionizing radiations in medicine, industry and research. (B) 655

THOMSON, Sir G.

The atom. 5th ed. O.U.P., 1956. pp. viii, 206, plate, tables, diagrs., bibliog. 7s. 6d. *Home university library of modern knowledge*, edited by G. Murray and Sir G. Clark—no. 145.

Previous ed. 1955. The present edition retains the original arrangement but the chapters on nuclear energy and the structure of the nucleus include new material made available as a result of the Geneva Conference on the peaceful uses of atomic energy. (A) 656

54 CHEMISTRY

FIESER, L. F., and FIESER, M.

Organic chemistry, 3rd ed. N.Y., Reinhold; London, C. & H., 1956. pp. v, 1112, illus., tables, diagrs., bibliog. \$10 or 50s.

Previous ed. 1950. The third edition has been completely revised to include sections of the structure of reserpine and vitamin B 12 and the total synthesis of aldosterone. (C) 657

55 GEOLOGY

BOWEN, N. L.

The evolution of the igneous rocks. N.Y., Dover Publications, 1956. pp. xviii, 332. Board covered \$3.50, paper covered \$1.85.

(B) 658

HEINRICH, E. W.

Microscopic petrography. N.Y., London, McG.-H., 1956. pp. xiii, 296, illus., tables, diagrs., bibliog. \$6.50 or 49s. *McGraw-Hill series in the geological sciences*, ed. by R. R. Shrock.

(B) 659

551.5 Meteorology

PETTERSEN, S.

Weather analysis and forecasting. 2nd ed. McG.-H., 1956. 2 v.

Vol. 1 pp. xix, 428, maps, tables, diagrs., bibliog. 64s. Vol. 2, pp. 270. 45s. A complete general treatise on forecasting. (B) 660

57 BIOLOGY

DAWES, E. A.

*Quantitative problems in biochemistry; foreword by J. N. Davidson. Edinburgh, London, Livingstone, 1956. pp. 224, tables, diags., bibliog. 21s. With answers to problems. The problems set are realistic, many being adapted from reported work to which references are given. The descriptive sections are also sufficiently full for the book to act as a useful introduction to the subject. (B) 661

GURR, E.

A practical manual of medical and biological staining techniques. 2nd ed. L. Hill, 1956. pp. xxv, 451, front., tables. 42s. Previous ed. 1953. In this manual the author describes about 160 biological stains and reagents and gives clear and detailed guidance on their use in a very wide range of biological materials. (C) 662

58 BOTANY

GOOD, R.

Features of evolution in flowering plants; illustrated by M. E. Malins and the author. Longmans, Green, 1956. pp. xv, 405, illus., tables, diags., bibliog. 30s.

The chapters fall into three groups, of which the first deals with general matters concerning plant evolution, the second with flowering plants or angiosperms, and the third with certain selected topics bearing on the evolution of flowering plants. (B) 663

RAVEN, J., and WALTERS, M.

Mountain flowers. Collins, 1956. pp. xv, 240, plates (16 col.), tables, bibliog. 25s. *New naturalist series, ed. by James Fisher and others—no. 33.*

The first book to be published on the mountain flowers of England, Scotland, Wales and Ireland; with maps and photographs. (A) 664

59 ZOOLOGY

SNODGRASS, R. E.

Anatomy of the honey bee. N.Y., Comstock, 1956. pp. 334, illus., bibliog. \$6.

An account of the anatomy of the honey bee at all stages of its development from egg to adult. The author also explains the mechanical and physiological reasons for anatomical facts. There are numerous line illustrations. (B) 665

THORPE, W. H.

Learning and instinct in animals: a study of the integration of acquired and innate behaviour. Methuen, 1956. pp. 502, plates, diags. 55s.

An important study on the borderline between psychology and zoology, giving an authoritative account of recent work in ethnology. (B) 666

6 APPLIED SCIENCES

62 ENGINEERING

621. Mechanical engineering

621.039 Nuclear engineering

CROWTHER, J. G.

Nuclear energy in industry. Newnes, 1956. pp. viii, 168, illus., map, tables, diags. 17s. 6d.

A considerable amount of information on the practical application of nuclear research was made available at the Geneva Conference on the peaceful uses of atomic energy, and is brought together in this book in a form suitable for non-technical readers. (A) 667

621.8 Power transmission

BARWELL, F. T.

Lubrication of bearings. Butterworth, 1956. pp. xii, 292, illus., tables, diags. 50s. *Butterworths Scientific Publications*.

The author discusses the more significant of the researches in lubrication that have been published in the last fifty years and presents the results in a form convenient to research workers.

(C) 668

624 Civil engineering

BAKER, A. L. L.

The ultimate-load theory applied to the design of reinforced and prestressed concrete frames. Concrete Publications, 1956. pp. x, 91, plates, tables, diags., bibliog. 18s. *Concrete series*.

(C) 669

625 Transport engineering

BOLTON, W. F.

Railwayman's diesel manual: practical introduction to the diesel-powered locomotive, railcar and multiple-unit train for the use of railway staff. Lake, 1956. pp. 96, illus., col. plate, diags. 7s. 6d.

Essentially a practical book intended for the practical man, fully illustrated with photographs and drawings of engine components.

(A) 670

63 AGRICULTURE

HUNT, D.

Farm power and machinery management; laboratory manual and workbook. 2nd ed. Ames, Iowa State College Press, 1956. pp. 149, illus. \$3.50.

Although this book does not include all agricultural machinery, the equipment that is included is well described and illustrated. The costs of operation and performance figures are a useful addition, though they relate only to American conditions.

(B) 671

LEVITT, J.

The hardness of plants. N.Y., Academic Press; London, Academic Books. pp. viii, 278, illus. \$7 or 56s. *American Society of Agronomy. Agronomy, a series of monographs*, vol. 6.

(B) 672

65 COMMUNICATIONS AND COMMERCE

ASHBY, W. R.

An introduction to cybernetics. Chapman & Hall, 1956. pp. ix, 295. 36s. Designed to present the subject in a simplified form without recourse to advanced mathematics or electronics, to enable biologists to apply some of the principles to their own work.

(B) 673

CHERRY, C., ed.

Information theory: papers read at a symposium on information theory held at the Royal Institution, London, September 1955. Butterworth, 1956. pp. xii, 401, tables, diags., bibliog. 70s. *Butterworth's scientific publications*.

There are five major sections to this book, containing papers on probability and randomization; coding and classification; mechanical translation; semantics, particularly in relation to speech; and the nervous system as a communication network.

(C) 674

657 Accountancy

SUMMARY of statutory and other requirement in the production of annual accounts of companies. 3rd ed. Gee, 1956. pp. 43, illus. 7s. 6d.

(B) 675

658 Industrial management

GREAT BRITAIN. National Physical Laboratory.

Wage accounting by electronic computer. H.M.S.O., 1956. pp. ii, 57, tables, diagrs. 2s. 6d. *Inter-departmental study group on the application of computer techniques to clerical work—report no. 1.*

(B) 676

HANDYSIDE, J. D.

An experiment with supervisory training. National Institute of Industrial Psychology, 1956. pp. [4], 48, illus., tables, diagrs. 2s. 6d. *N.I.I.P. Reports—no. 12.*

The experiment was carried out for a year in a cleaning material factory.

(C) 677

NADLER, G.

Motion and time study. N.Y., London, McG-H., 1955. pp. 612, illus. \$7.50 or 53s. 6d.

It is only within the past twenty years or so that time and motion study has been extensively applied. This book is a useful survey of present methods.

(B) 678

659 Advertising

CHADDOCK, R. E., ed.

Chemical market research in practice. N.Y., Reinhold; London, C. & H. pp. xii, 196, tables, bibliog. 24s.

Based on a series of lectures presented by the Chemical Market Research Association at Case Institute of Technology and University of Delaware. The lectures explain the basic principles and application of market research as applied to the chemical industry.

(C) 679

66. CHEMICAL TECHNOLOGY

CAMPBELL, I. E., ed.

High-temperature technology. N.Y., Wiley; London, C. & H., 1956. pp. 526, illus. \$15 or 120s. *Electrochemical Society series.*

This is a collective work in which thirty-five authors have collaborated under the sponsorship of the Electrochemical Society to survey recent developments in materials, methods and measurements in the field of high-temperature operation.

(C) 680

EMMETT, P. H.

Catalysis: Vol. 4. Hydrocarbon synthesis, hydrogenation and cyclization. N.Y., Reinhold; London, C. & H., 1956. pp. vi, 570, illus., tables, diagrs. \$12.50 or 100s.

This volume is beautifully produced and deals in detail with certain catalytic hydrogenation reactions. The six main chapters are written by members of the United States Bureau of Mines, where a great deal of this work has been done. The topics are presented expertly and in considerable detail.

(C) 681

KEY, A.

Gas works effluents and ammonia. 2nd ed. rev. and enl. by P. C. Gardiner. Institute of Gas Engineers, 1956. pp. 197, tables, diagrs., bibliog. 21s.

Previous ed. 1938. This book provides a broad view of the nature and handling of gas works effluents and ammonia. The new edition is enlarged and places more emphasis on practical aspects.

(C) 682

LEA, F. M., and DESCH, C. H.

The chemistry of cement and concrete. 2nd ed. rev. by F. M. Lea. Arnold, 1956. pp. xvi, 637, plates, tables, diagrs. 70s.

First published in 1935, this second edition has been completely revised and brought up to date and an additional chapter has been included reviewing the atomic structures of cement compounds and their relation to cementing properties.

(C) 683

669 Metallurgy

SMITH, M. C.

Alloy series in physical metallurgy. N.Y., Harper, 1956. pp. 338, illus. \$6 or 50s.

(C) 684

SMITH, M. C.

Principles of physical metallurgy. N.Y., Harper, 1956. pp. 417, illus. \$6 or 50s.

(C) 685

CHARLES, J. A., and others

Oxygen in iron and steel making, by J. A. Charles, W. J. B. Chater, and J. L. Harrison. Butterworth, 1956. pp. xii, 309, plates, tables, diagrs. 42s. *Butterworth's Scientific Publications.*

The authors have collected together all that is at present known of the theory and practice of this vitally important modern development. The third section, on flame enrichment, reads better than the other two and contains matter of interest beyond iron and steel making.

(C) 686

67/68 MANUFACTURES

684 Coachbuilding and furniture

BONNETT, D., ed.

Contemporary cabinet design and construction. Batsford, 1956. pp. 238, front., illus., tables, diagrs., bibliog. 50s.

An excellent book for the student of British contemporary furniture. It covers the whole field from raw materials, including adhesives and plastics, through design to manufacture and factory management, and includes a useful chapter on costing in the furniture industry.

(B) 687

69 BUILDING

DAVIES, R. L., and PETTY, D. J.

Building elements: with a foreword by W. A. Allen. Architectural P., 1956. pp. 384, illus., tables, diagrs., bibliog. 37s. 5d. *Modern building construction series—vol. 3.*

This volume explains the functional requirements of a building and describes how they are met in the design of the wall, floor, roof and other elements.

(B) 688

9 HISTORY/GEOGRAPHY

92 BIOGRAPHY

ESPINASSE, M.

Robert Hooke. Heinemann, 1956. pp. xi, 192, plates, bibliog. 21s. *Contemporary science series, ed. by J. Bronowski.*

The first full-length book attempting to restore Hooke's credit both as a scientist and as a personality, this work is a considerable contribution to the study of seventeenth-century science.

(A) 689

93 HISTORY

930.25 Archives

SHELLENBERG, T. R.

Modern archives: principles and techniques. Melbourne, Cheshire; London, Angus & Robertson, 1956. pp. xv, 248. 30s.

Covers modern business and administrative archives as well as the records of the past. Based on the author's work in the United States and Australia.

(B) 690

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin
 C. & H.: Chapman and Hall
 C.U.P.: Cambridge University Press
 H.M.S.O.: Her Majesty's Stationery Office
 L.G.: Longmans, Green
 McG.-H.: McGraw-Hill
 O. & B.: Oliver and Boyd
 O.U.P.: Oxford University Press

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